KV-2204UB
RM-604B

Chassis No. SCC-244A-A

TRINITRON®
COLOUR TV

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SPECIFICATIONS

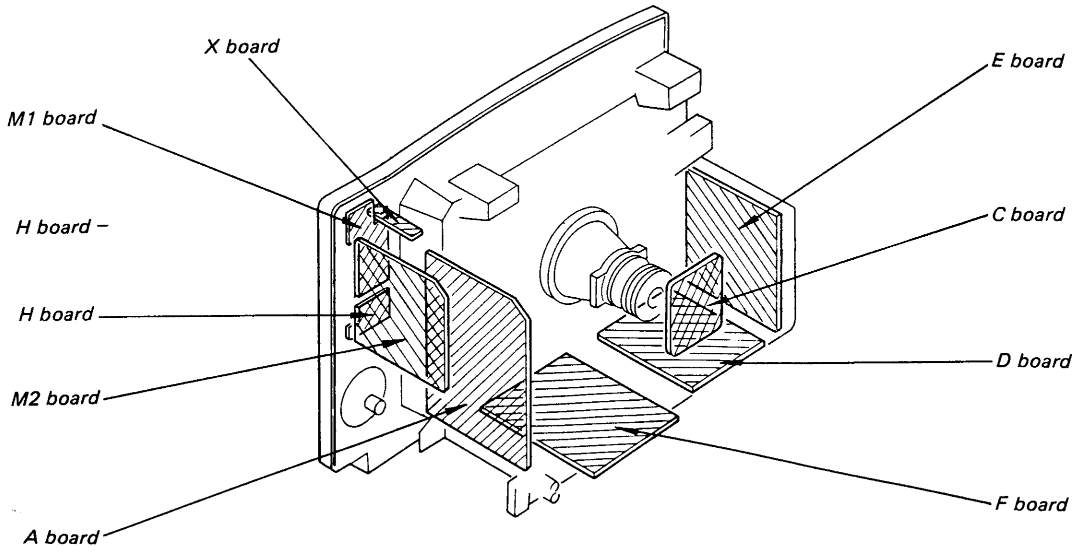
Television System:	British TV standards
Colour System:	PAL
Picture Tube:	56 cm, 22" (53.8 cm screen measured diagonally), 114° deflection TRINITRON system
Semiconductors:	50 transistors, 2 FETs, 9 ICs, 57 diodes and 1 GCS (Gate Control Switch)
Aerial:	75 Ω standard antenna socket
Channel Coverage:	UHF channels: 21 – 68
Intermediate Frequencies:	Picture i-f carrier: 39.5 MHz Colour subcarrier: 35.07 MHz Sound i-f carrier: 33.5 MHz
Sound System:	6 MHz intercarrier Output power: 2 W (at 10 % harmonic distortion) Speaker: 12 cm (4 ¾ inches) dia., 8 Ω
Video System:	R, G, B cathode drive

– Continued on next page –

SONY®
SERVICE MANUAL

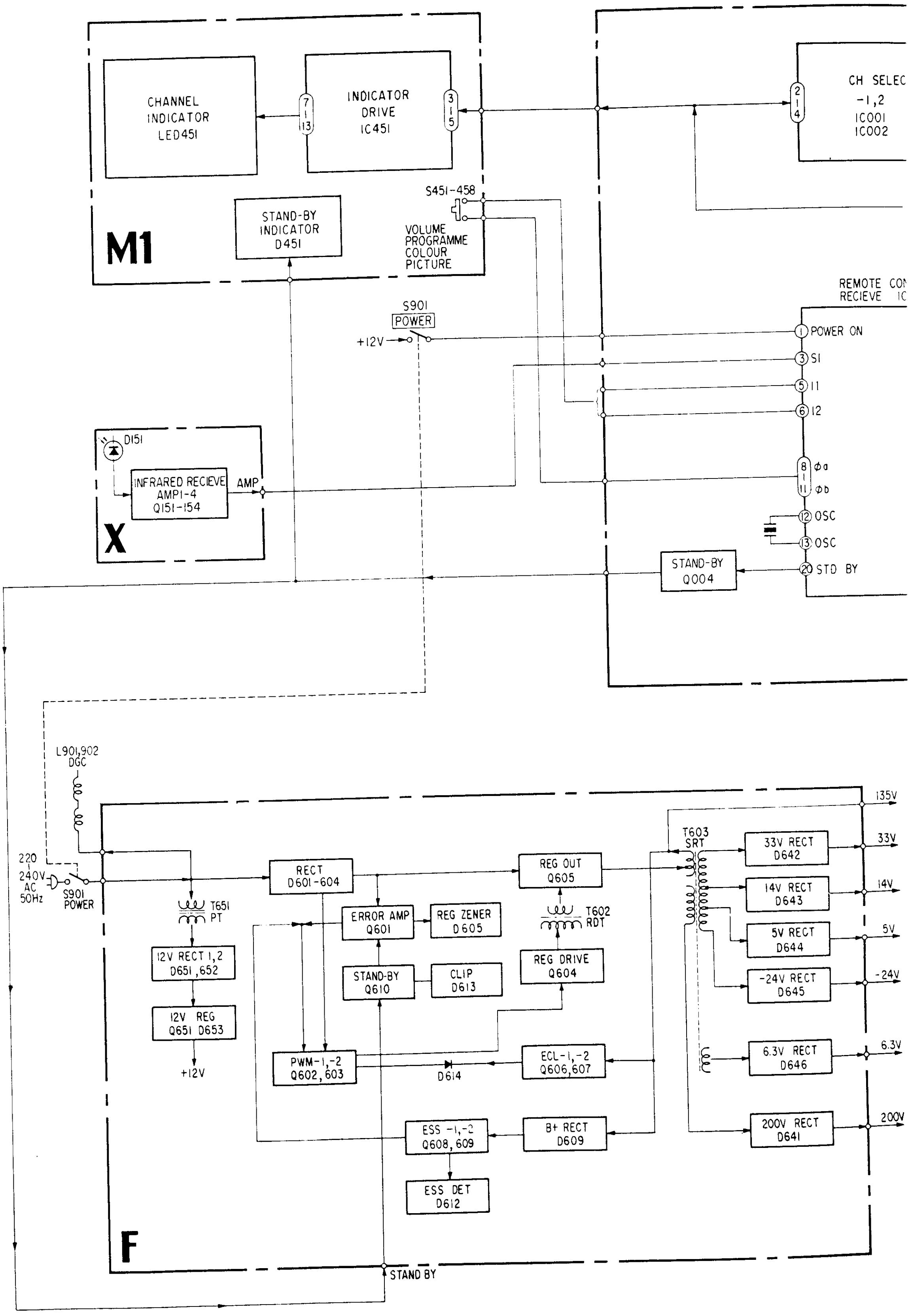
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic colour control) ACK (automatic colour killer) ADG (automatic degaussing) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller) APC (automatic phase control) AVR (automatic voltage regulator)
Anode Voltage:	24.5 kV at zero beam current
Power Requirement:	200 – 240 V ac, 50 Hz
Power Consumption:	98 W ac 8 W ac (in stand-by condition)
Dimensions:	Approx. 669 (w) x 459 (h) x 413 (d) mm 26 ⅜(w) x 18 ⅛(h) x 16 ⅜(d) inches
Net Weight:	Approx. 31.5 kg (69 lb 7 oz)
Accessories Supplied:	Remote commander RM-604B Earpiece (ME-20E) Instruction manual

CIRCUIT BOARDS LOCATION

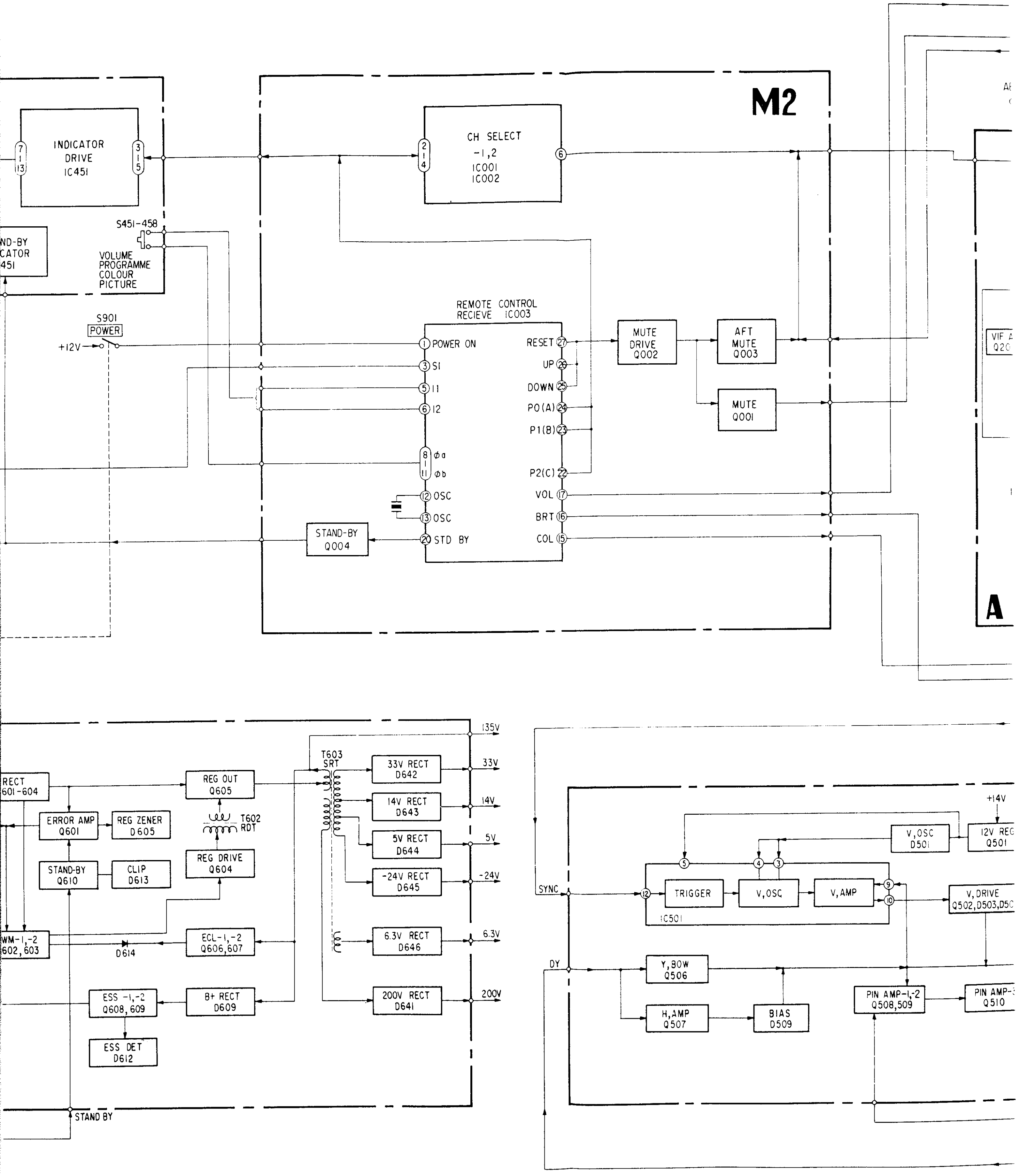


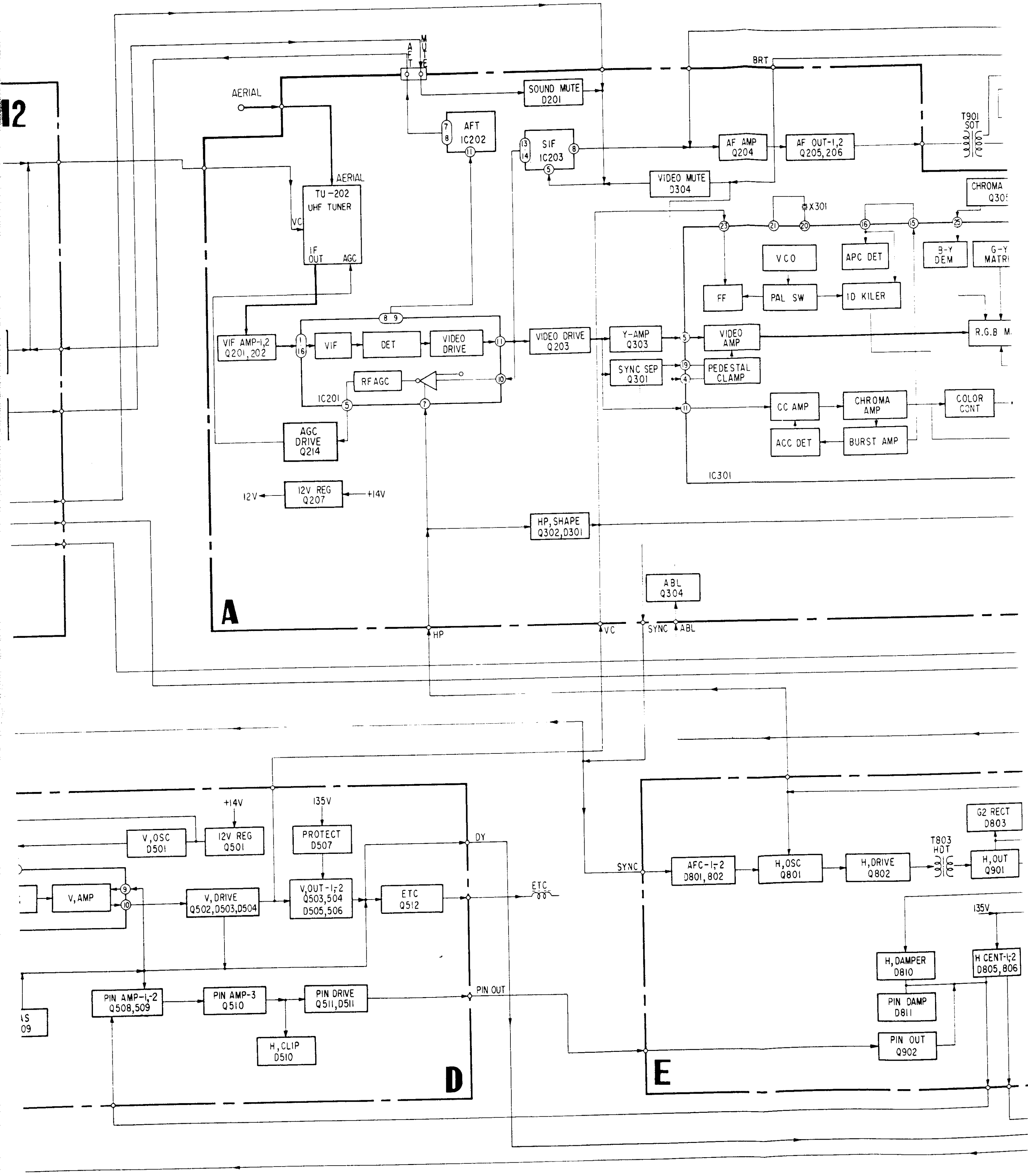
SECTION 1
OUTLINE

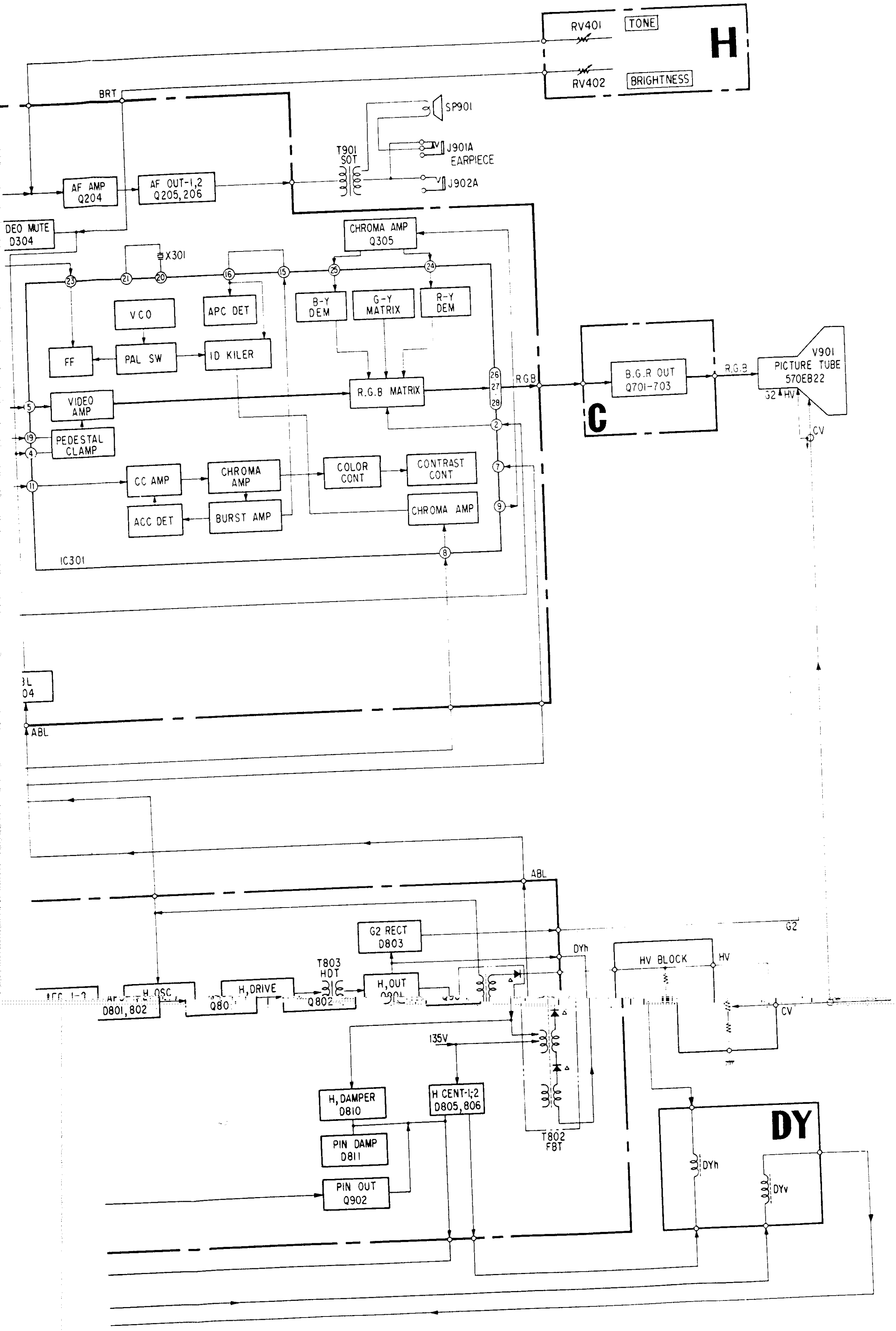
1-1. BLOCK DIAGRAM


CHANNEL INDICATOR LED451
7 | 13
INDICATOR DRIVE IC451
3 | 5
STAND-BY INDICATOR D451
S451-458
VOLUME
PROGRAMME
COLOUR
PICTURE
M1
CH SELEC
-1,2
IC001
IC002
2 | 4
REMOTE CO
RECIEVE IC
S901
POWER
+12V
1 POWER ON
3 S1
5 I1
6 I2
8 | 11 φa φb
12 OSC
13 OSC
20 STD BY
STAND-BY Q004
D151
INFRARED RECIEVE AMP1-4 Q151-154
AMP
X
L901,902 DGC
220 240V AC 50Hz
S901 POWER
T651 PT
12V RECT 1,2 D651,652
12V REG Q651 D653
+12V
RECT D601-604
ERROR AMP Q601
REG ZENER D605
STAND-BY Q610
CLIP D613
PWM-1,-2 Q602,603
D614
REG OUT Q605
T602 RDT
REG DRIVE Q604
ECL-1,-2 Q606,607
B+ RECT D609
ESS -1,-2 Q608,609
ESS DET D612
T603 SRT
33V RECT D642
14V RECT D643
5V RECT D644
-24V RECT D645
6.3V RECT D646
200V RECT D641
135V
33V
14V
5V
-24V
6.3V
200V
F
STAND BY

ECTION 1
OUTLINE


M2
INDICATOR DRIVE IC451
7 13
3 15
ND-BY CATOR 451
S451-458
VOLUME
PROGRAMME
COLOUR
PICTURE
S901
POWER
+12V
CH SELECT -1,2 IC001 IC002
2 4
6
REMOTE CONTROL RECIEVE IC003
1 POWER ON
3 S1
5 I1
6 I2
8 φa
11 φb
12 OSC
13 OSC
20 STD BY
RESET 27
UP 26
DOWN 25
PO(A) 24
P1(B) 23
P2(C) 22
VOL 17
BRT 16
COL 15
STAND-BY Q004
MUTE DRIVE Q002
AFT MUTE Q003
MUTE Q001
VIF A Q20
A
RECT 601-604
ERROR AMP Q601
REG ZENER D605
STAND-BY Q610
CLIP D613
REG OUT Q605
T602 RDT
REG DRIVE Q604
WM-1,-2 602,603
D614
ECL-1,-2 Q606,607
ESS -1,-2 Q608,609
B+ RECT D609
ESS DET D612
STAND BY
T603 SRT
33V RECT D642
14V RECT D643
5V RECT D644
-24V RECT D645
6.3V RECT D646
200V RECT D641
135V
33V
14V
5V
-24V
6.3V
200V
+14V
12V REG Q501
V,OSC D501
5 4 3
SYNC
12
TRIGGER
V,OSC
V,AMP
9
10
IC501
V,DRIVE Q502,D503,D5
DY
Y,BOW Q506
H,AMP Q507
BIAS D509
PIN AMP-1,-2 Q508,509
PIN AMP-3 Q510


12
AERIAL
AFT
MUTE
SOUND MUTE
D201
AFT
IC202
SIF
IC203
BRT
AF AMP
Q204
AF OUT-1,2
Q205,206
T901
SOT
VIDEO MUTE
D304
CHROMA
Q305
AERIAL
TU-202
UHF TUNER
VC
IF OUT
AGC
X301
VCO
APC DET
B-Y DEM
G-Y MATR
FF
PAL SW
ID KILER
VIF AMP-1,2
Q201,202
VIF
DET
VIDEO DRIVE
RF AGC
IC201
VIDEO DRIVE
Q203
Y-AMP
Q303
VIDEO AMP
R.G.B M
SYNC SEP
Q301
PEDESTAL CLAMP
CC AMP
CHROMA AMP
COLOR CONT
ACC DET
BURST AMP
IC301
AGC DRIVE
Q214
12V
12V REG
Q207
+14V
HP, SHAPE
Q302, D301
ABL
Q304
A
HP
VC
SYNC
ABL
+14V
135V
V, OSC
D501
12V REG
Q501
PROTECT
D507
DY
V, AMP
V, DRIVE
Q502, D503, D504
V, OUT-1,2
Q503,504
D505,506
ETC
Q512
ETC
PIN AMP-1,2
Q508,509
PIN AMP-3
Q510
PIN DRIVE
Q511, D511
PIN OUT
AS
09
H, CLIP
D510
D
SYNC
AFC-1,2
D801,802
H, OSC
Q801
H, DRIVE
Q802
T803
HDT
H, OUT
Q901
G2 RECT
D803
135V
H, DAMPER
D810
H CENT-1,2
D805,806
PIN DAMP
D811
PIN OUT
Q902
E


H
RV401
TONE
RV402
BRIGHTNESS
BRT
SP901
T901
SOT
J901A
EARPIECE
J902A
AF AMP
Q204
AF OUT-1,2
Q205,206
DEO MUTE
D304
CHROMA AMP
Q305
X301
23
21
20
16
15
25
24
VCO
APC DET
B-Y DEM
G-Y MATRIX
R-Y DEM
FF
PAL SW
ID KILER
R.G.B MATRIX
26
27
28
RGB
VIDEO AMP
PEDESTAL CLAMP
5
19
4
11
2
7
9
8
CC AMP
CHROMA AMP
COLOR CONT
CONTRAST CONT
ACC DET
BURST AMP
CHROMA AMP
IC301
C
B.G.R OUT
Q701-703
R.G.B
V901
PICTURE TUBE
570EB22
G2
HV
CV
BL
04
ABL
ABL
G2 RECT
D803
G2
DYh
HV BLOCK
HV
CV
H,OSC
D801,802
H,DRIVE
Q801
T803
HDT
Q802
H,OUT
135V
H,DAMPER
D810
H CENT-1,2
D805,806
T802
FBT
PIN DAMP
D811
PIN OUT
Q902
DY
DYh
DYv

2-1. I

⑥ anode cɩ

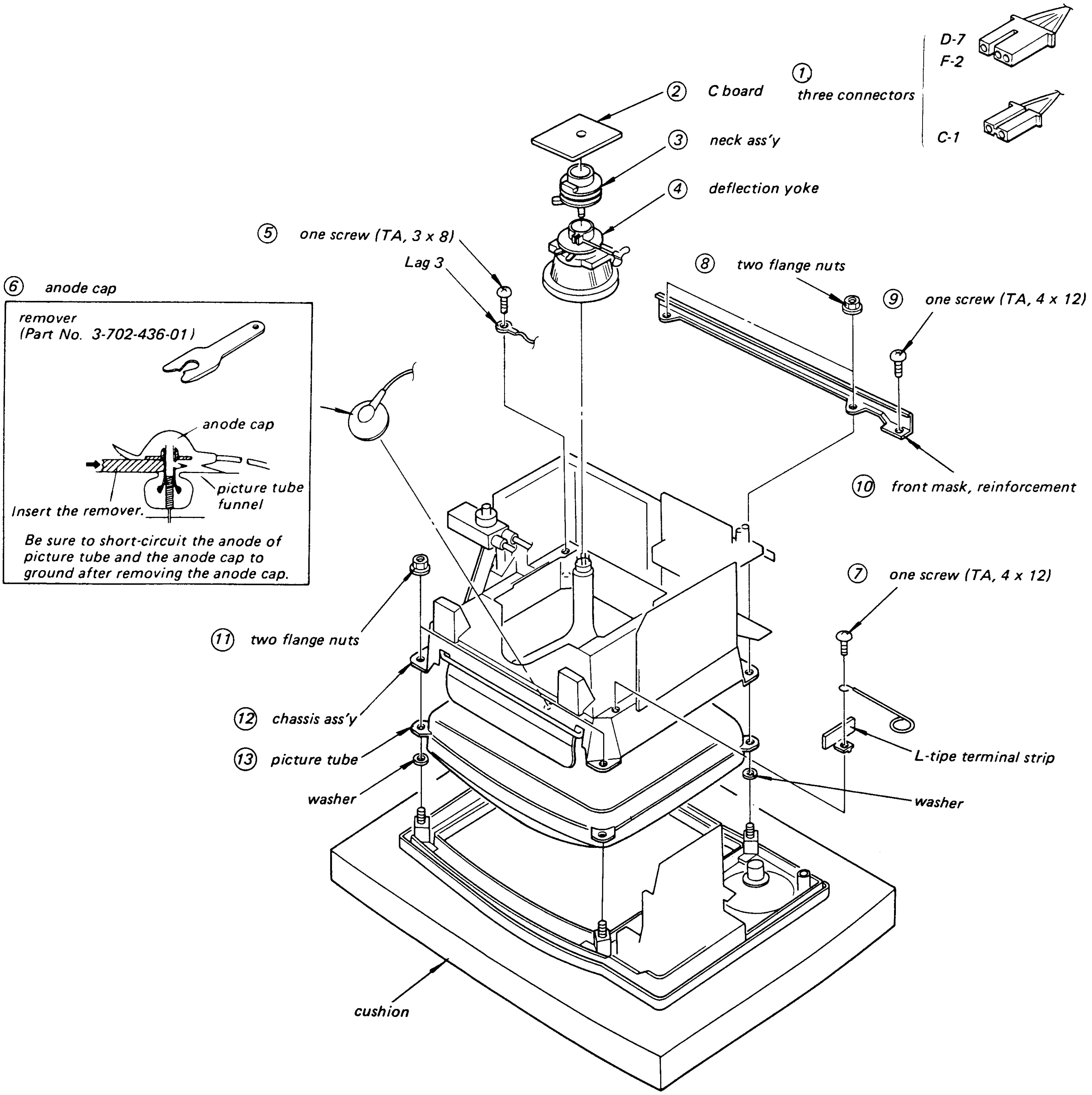
remover
(Part No. 3-

Insert the ren

Be sure to s
picture tub
ground afte

SECTION 2
DISASSEMBLY

2-1. PICTURE TUBE REMOVAL


① three connectors
D-7
F-2
C-1
② C board
③ neck ass'y
④ deflection yoke
⑤ one screw (TA, 3 x 8)
Lag 3
⑥ anode cap
remover
(Part No. 3-702-436-01)
anode cap
Insert the remover.
picture tube funnel
⑦ one screw (TA, 4 x 12)
⑧ two flange nuts
⑨ one screw (TA, 4 x 12)
⑩ front mask, reinforcement
⑪ two flange nuts
⑫ chassis ass'y
⑬ picture tube
washer
L-tipe terminal strip
washer
cushion

Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

SECTION 3
SETUP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

◑ (picture) control . . . . .maximum (Press ◑ + button)
BRIGHTNESS control . . . . . . .maximum (fully clockwise)
AFT switch . . . . .ON

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

Note: Test Equipment Required.
1. Colour-bar/Pattern Generator
2. Degausser

◆ ◆ ◆

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

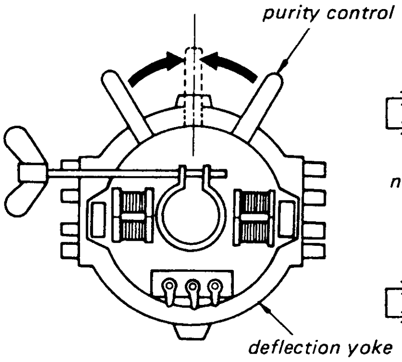

purity control
deflection yoke

Fig. 3-1.

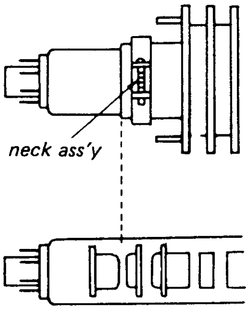


Fig. 3-2.

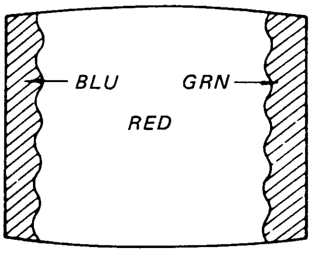
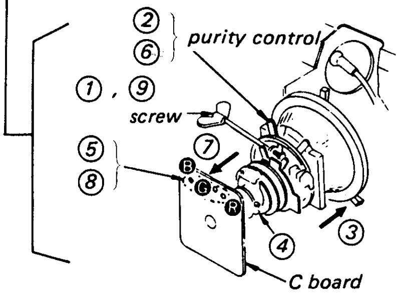
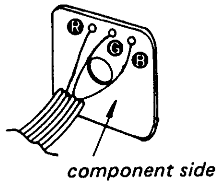


Fig. 3-3.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 3-1.
3. Slide deflection yoke as far forward as it will go.
4. Position neck ass'y as shown in Fig. 3-2.
5. Disconnect leads Ⓖ and Ⓑ on the C board.
6. Adjust purity control to centre vertical red band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform red screen.
8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.
   To get a uniform green screen,
   connect lead Ⓖ on the C board and
   disconnect leads Ⓡ and Ⓑ .
   To get a uniform blue screen,
   connect lead Ⓑ on the C board and
   disconnect leads Ⓡ and Ⓖ .
   After these checks, connect the leads Ⓡ , Ⓖ . and Ⓑ .
9. Tighten the deflection yoke screw.
10. Check if mislanding appears at corners a – d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
11. Confirm that beam landing is correct when the receiver is faced in all directions.


② ⑥ purity control
① , ⑨ screw
⑤ ⑧
⑦
B G R
④
③
C board


R G B
component side

Note: The circled numbers (① – ⑨) show above steps.

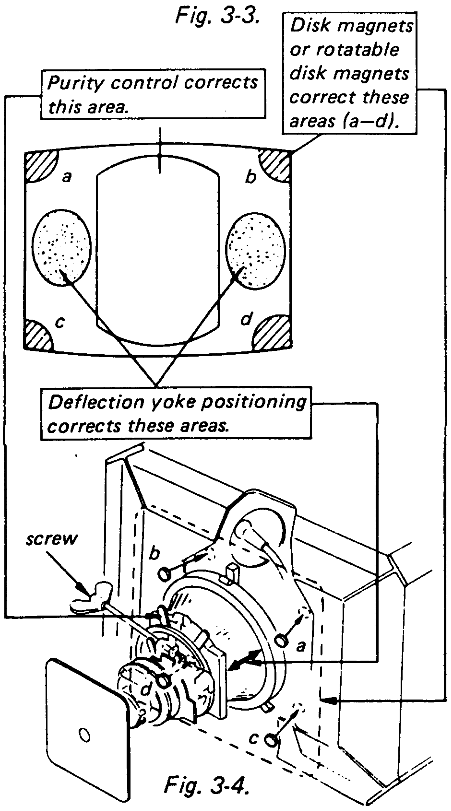

Disk magnets or rotatable disk magnets correct these areas (a–d).
Purity control corrects this area.
a
b
c
d
Deflection yoke positioning corrects these areas.
screw
b
a
d
c

Fig. 3-4.

3-2. CONVERGENCE

Preparation:

- Before starting this adjustment, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Turn BRIGHTNESS control fully counterclockwise.
- Feed in a dot pattern.

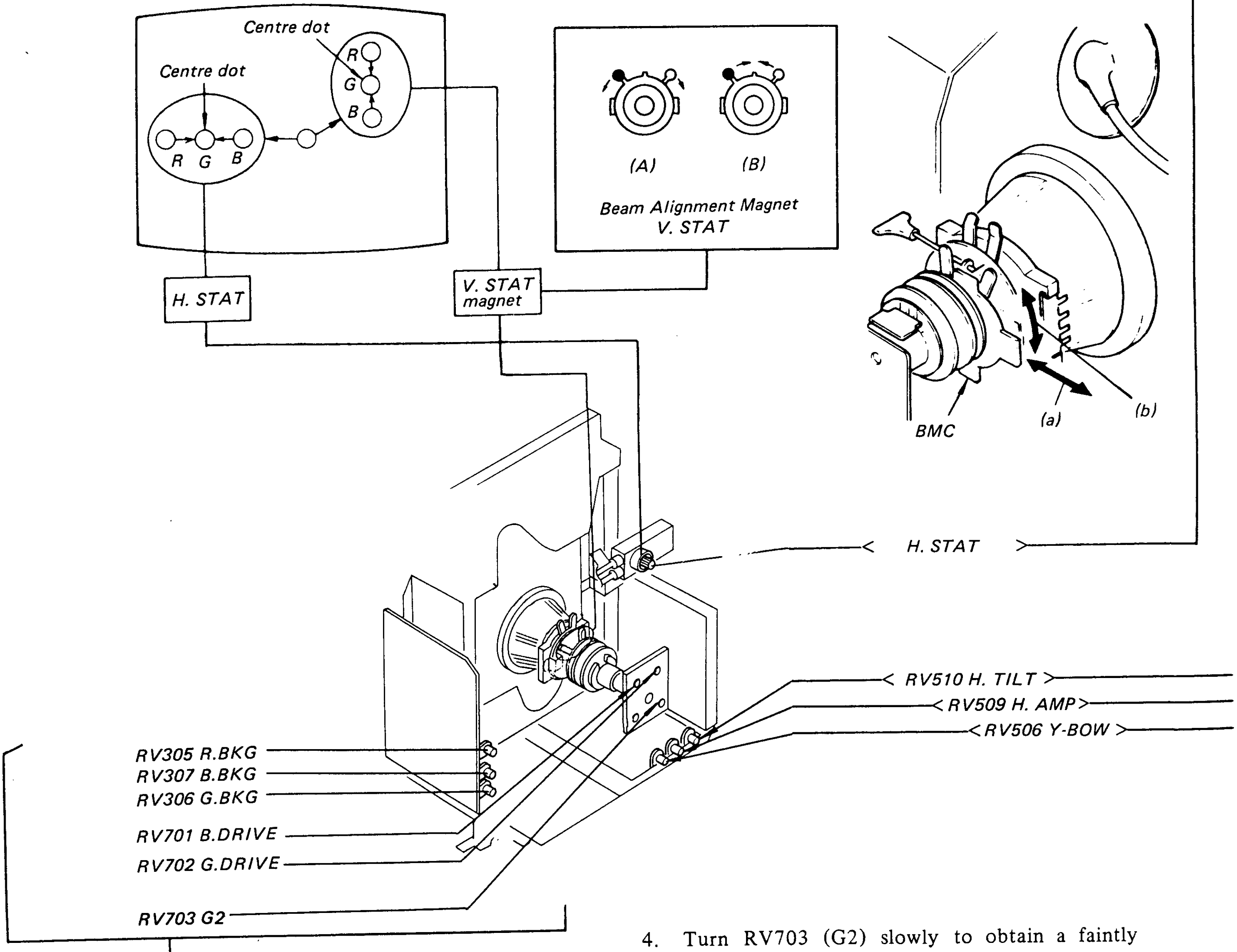
(1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.


Centre dot
Centre dot
R
G
B
R G B
(A)
(B)
Beam Alignment Magnet
V. STAT
H. STAT
V. STAT magnet
BMC
(a)
(b)
< H. STAT >
< RV510 H. TILT >
< RV509 H. AMP >
< RV506 Y-BOW >
RV305 R.BKG
RV307 B.BKG
RV306 G.BKG
RV701 B.DRIVE
RV702 G.DRIVE
RV703 G2

3-3. WHITE BALANCE

Feed in a cross-hatch pattern.

1. Turn BRIGHTNESS control fully counterclockwise and press ◑ – (picture) button to obtain a minimum picture position.
2. Turn RV701 (B.DRIVE) and RV702 (G.DRIVE) fully clockwise.
3. Set RV305 (R.BKG), RV306 (G.BKG) and RV307 (B.BKG) to mechanical centre.
4. Turn RV703 (G2) slowly to obtain a faintly visible cross-hatch. Note the colour which first becomes visible by turning RV703. Do not turn a BKG control for this colour.
5. Adjust the other two BKG controls for best white balance (neutral gray) of faint cross-hatch.
6. Turn BRIGHTNESS control fully clockwise and press ◑ + (picture) button to obtain a maximum picture position. Observe the screen and adjust the DRIVE control for best white balance.
7. Repeat Steps 1 through 6 several times.

US,

ock-

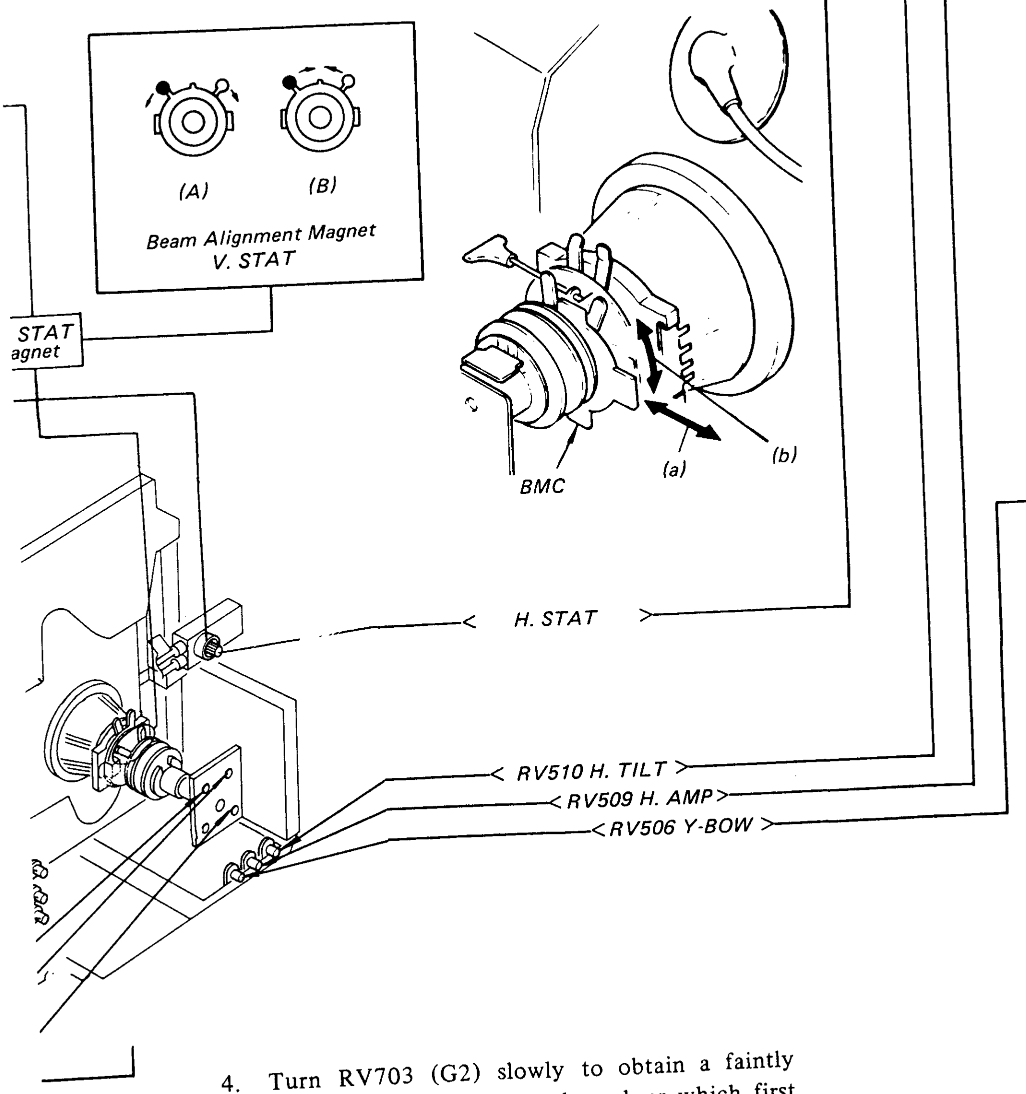
nce

If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.


(A)
(B)
Beam Alignment Magnet
V. STAT
STAT
agnet
BMC
(a)
(b)
H. STAT
RV510 H. TILT
RV509 H. AMP
RV506 Y-BOW

4. Turn RV703 (G2) slowly to obtain a faintly visible cross-hatch. Note the colour which first becomes visible by turning RV703. Do not turn a BKG control for this colour.
5. Adjust the other two BKG controls for best white balance (neutral gray) of faint cross-hatch.
6. Turn BRIGHTNESS control fully clockwise and press ◑ + (picture) button to obtain a maximum picture position. Observe the screen and adjust the DRIVE control for best white balance.
7. Repeat Steps 1 through 6 several times.

lock-
btain

IVE)

and

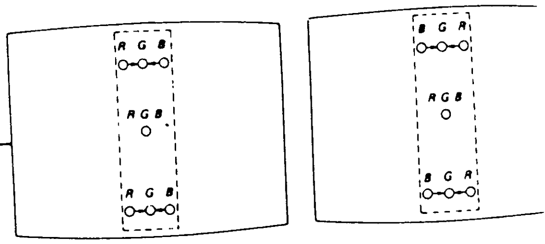
(2) Dynamic Convergence

[Misconvergence at Both Sides of Screen.]

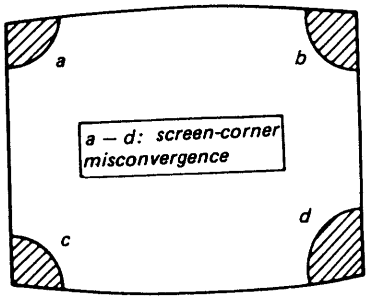
1. Set RV509 and RV510 to mechanical centre.
2. Adjust H.STAT control so that green and dots coincide at centre of screen.
3. Adjust RV510 so that X1 is equal to X3.
4. Adjust RV509 so that X2 is equal to X3.
5. Repeat above Steps 1 through 4 two or th times.

[Top and Bottom Misconvergence]

(A)


R G B
R G B
R G B
B G R
R G B
B G R

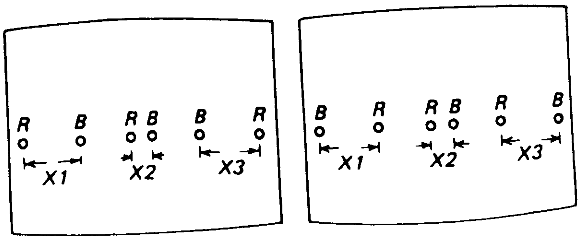
(3) Screen-corner Convergence


a
b
c
d
a – d: screen-corner misconvergence

(2) Dynamic Convergence

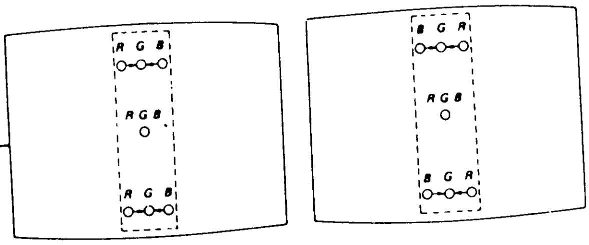
[Misconvergence at Both Sides of Screen.]

1. Set RV509 and RV510 to mechanical centre.
2. Adjust H.STAT control so that green and blue dots coincide at centre of screen.
3. Adjust RV510 so that X1 is equal to X3.
4. Adjust RV509 so that X2 is equal to X3.
5. Repeat above Steps 1 through 4 two or three times.

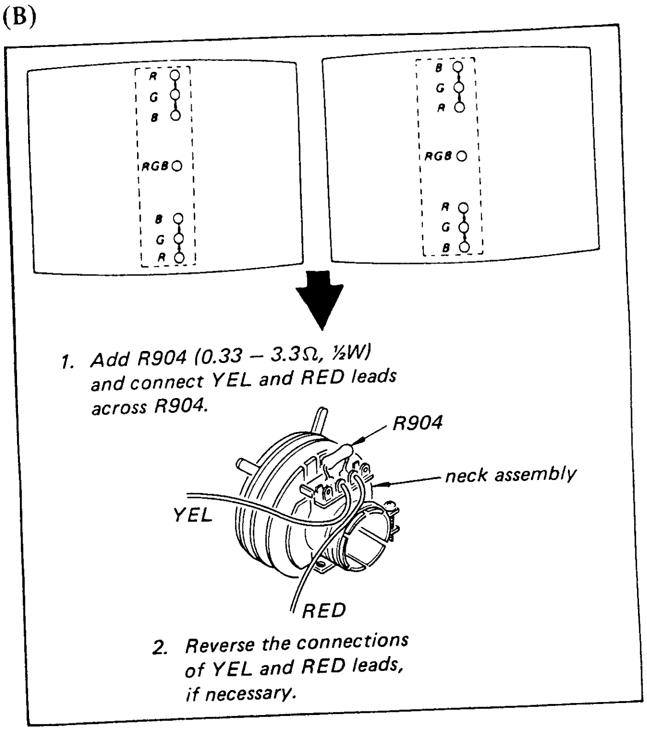

R
B
R B
B
R
X1
X2
X3
B
R
R B
R
B
X1
X2
X3

[Top and Bottom Misconvergence]

(A)

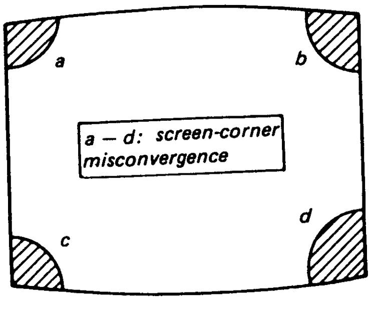

R G B
RGB
R G B
B G R
RGB
B G R

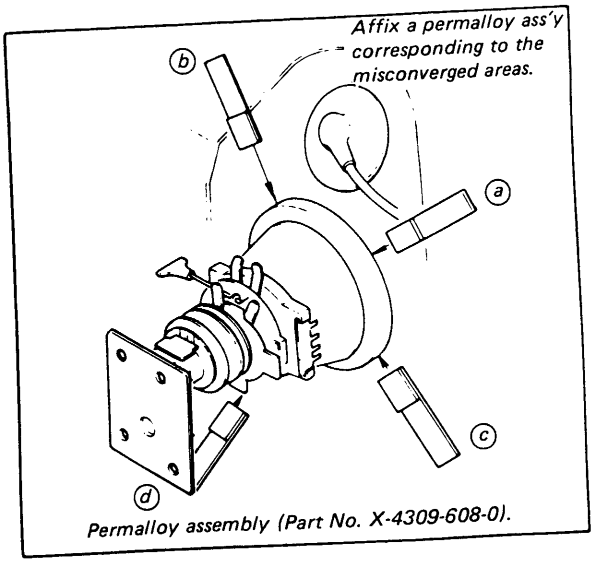
(B)


R
G
B
RGB
B
G
R
B
G
R
RGB
R
G
B
R904
neck assembly
YEL
RED

1. *Add R904 (0.33 – 3.3Ω, ½W) and connect YEL and RED leads across R904.*
2. *Reverse the connections of YEL and RED leads, if necessary.*

(3) Screen-corner Convergence


a
b
c
d
a – d: screen-corner misconvergence



Affix a permalloy ass'y corresponding to the misconverged areas.

Permalloy assembly (Part No. X-4309-608-0).

SECTION 4
CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Colour-bar/pattern generator
4. Variable auto-transformer
5. Isolation transformer

(2) INPUT SIGNAL

When making these adjustments, supply a closs-hatch, a colour-bar or an off-air signal.

(3) CONTROL SETTINGS

Controls and switch should be set as follows

◑ (picture) control | set for best picture
BRIGHTNESS control | or press NORM. button
◑ (colour) control | on remote commander.

(4) These adjustment should be performed with rated power supply voltage unless otherwise noted.

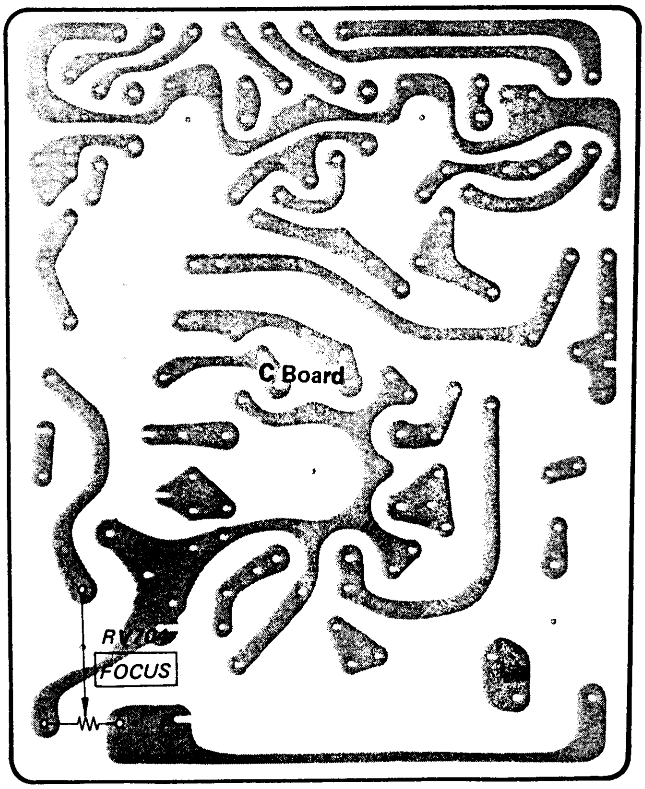
(5) ADJUSTMENT

Adjustment	Circuit board	Page
FOCUS	C	11
135V ADJ	F	12
PIN AMP AND PHASE	D	13
TOP AND BOTTOM PINCUSHION		
H. OSC	E	14
CW PHASE	A	15 and 16
SIF		
AFT		
RF AGC		
IH DELAY		
APC (4.433MHz)		
SUB BRT		
SUB COLOUR		

4-1. C BOARD ADJUSTMENT

FOCUS

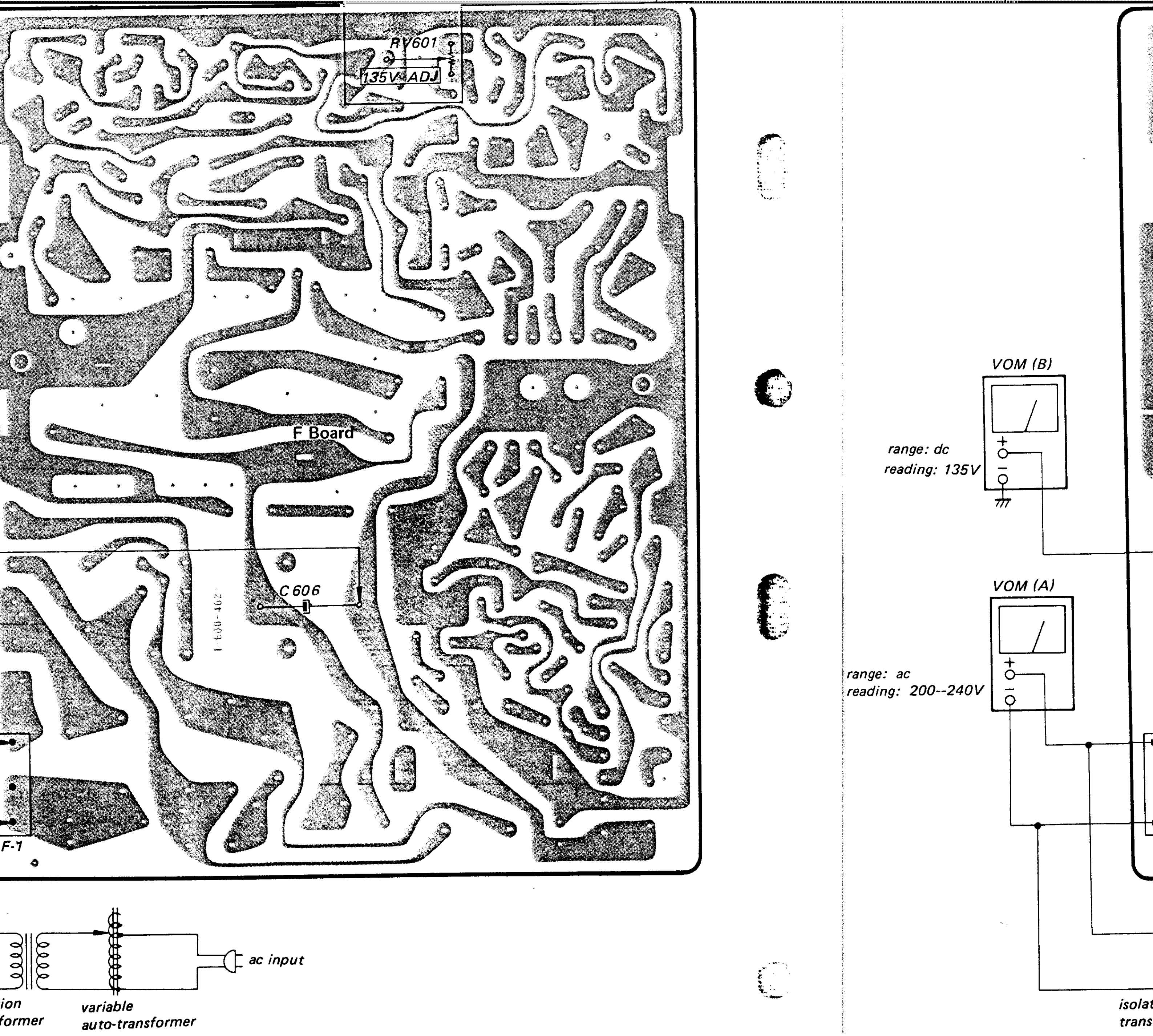
Adjust RV704 for a best focus..



4-2. F BOARD ADJUSTMENT

135V ADJ

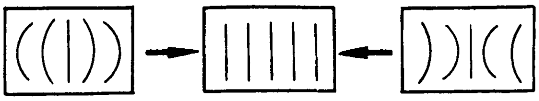
1. *Adjust variable auto-transformer for 200–240V ac on VOM (A).*
2. *Adjust RV601 for 135V dc on VOM (B).*

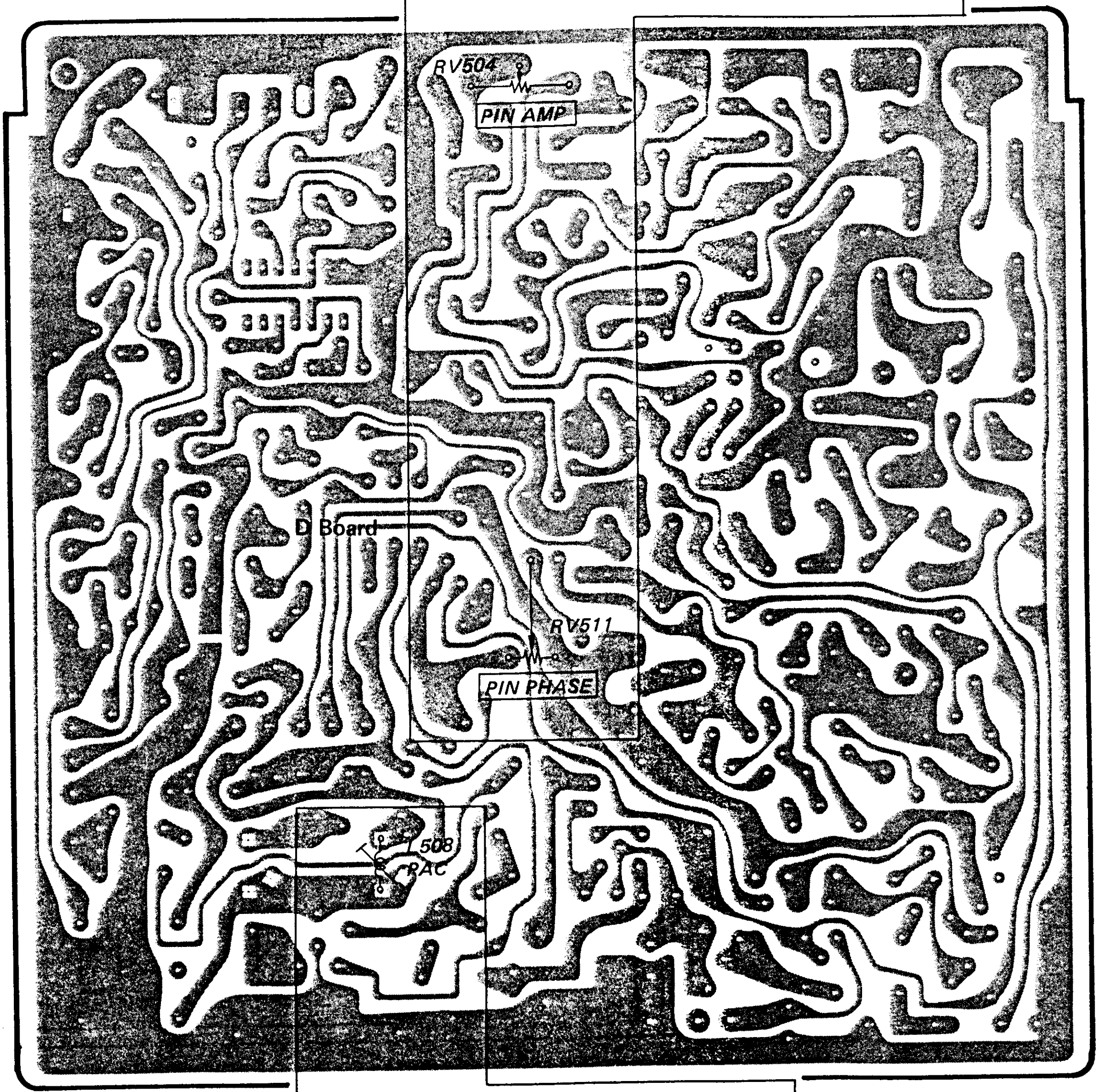

RV601
135V ADJ
F Board
C 606
1-600-462
F-1
VOM (B)
range: dc
reading: 135V
VOM (A)
range: ac
reading: 200--240V
ac input
ion
former
variable
auto-transformer
isolat
trans

4-3. D BOARD ADJUSTMENTS

PIN AMP AND PHASE

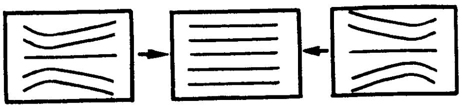
Adjust RV504 and RV511 to make vertical lines straight as shown.




RV504
PIN AMP
D Board
RV511
PIN PHASE
508
PAC

TOP AND BOTTOM PINCUSHION

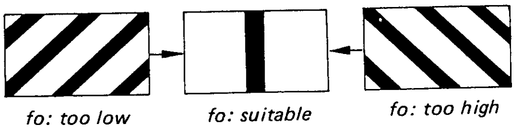
1. *Feed in a cross-hatch pattern from the colour-bar/pattern generator.*
2. *Adjust L508 (PAC) to make horizontal lines straight as shown.*

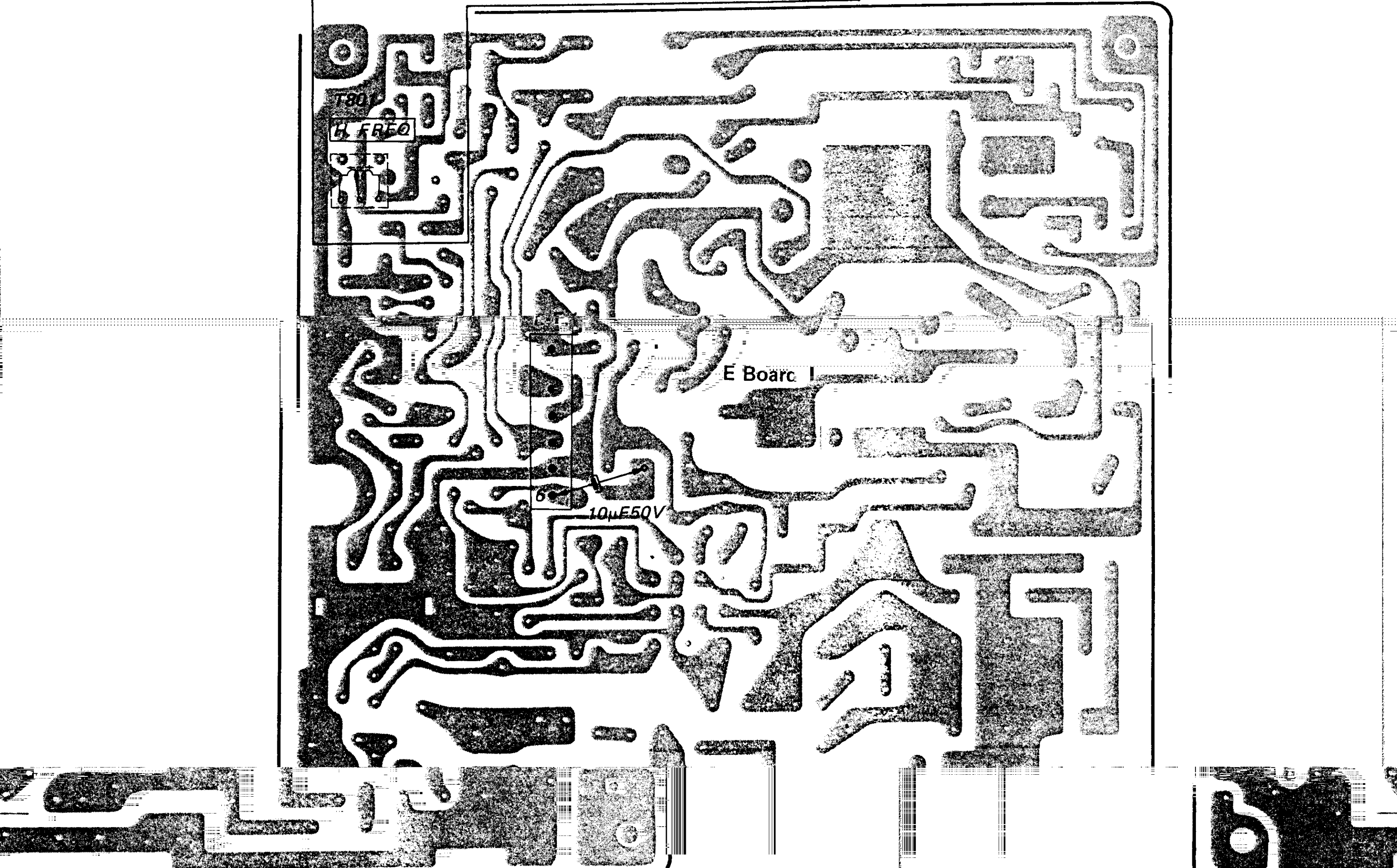


4-4. E BOARD ADJUSTMENT

H. OSC

1. *Connect a 10µF/50V electrolytic capacitor during this adjustment as shown.*
2. *Adjust T801 for stable picture as shown.*

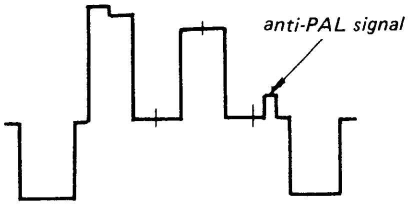

fo: too low
fo: suitable
fo: too high


T801
H. FREQ
E Board
6
10µF50V

4-5. A BOARD ADJUSTMENTS

CW PHASE

1. *Feed in a special colour-bar signal.*
2. *Connect an oscilloscope (B) to the pin 7 of A-8 connector.*
3. *Adjust RV304 so that the antil-pal signal of the red output is disappeared.*



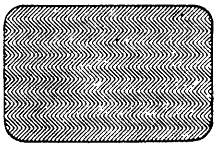
SIF

1. *Tune in an off-air signal.*
2. *Adjust T206 for a maximum clear sound.*

AFT

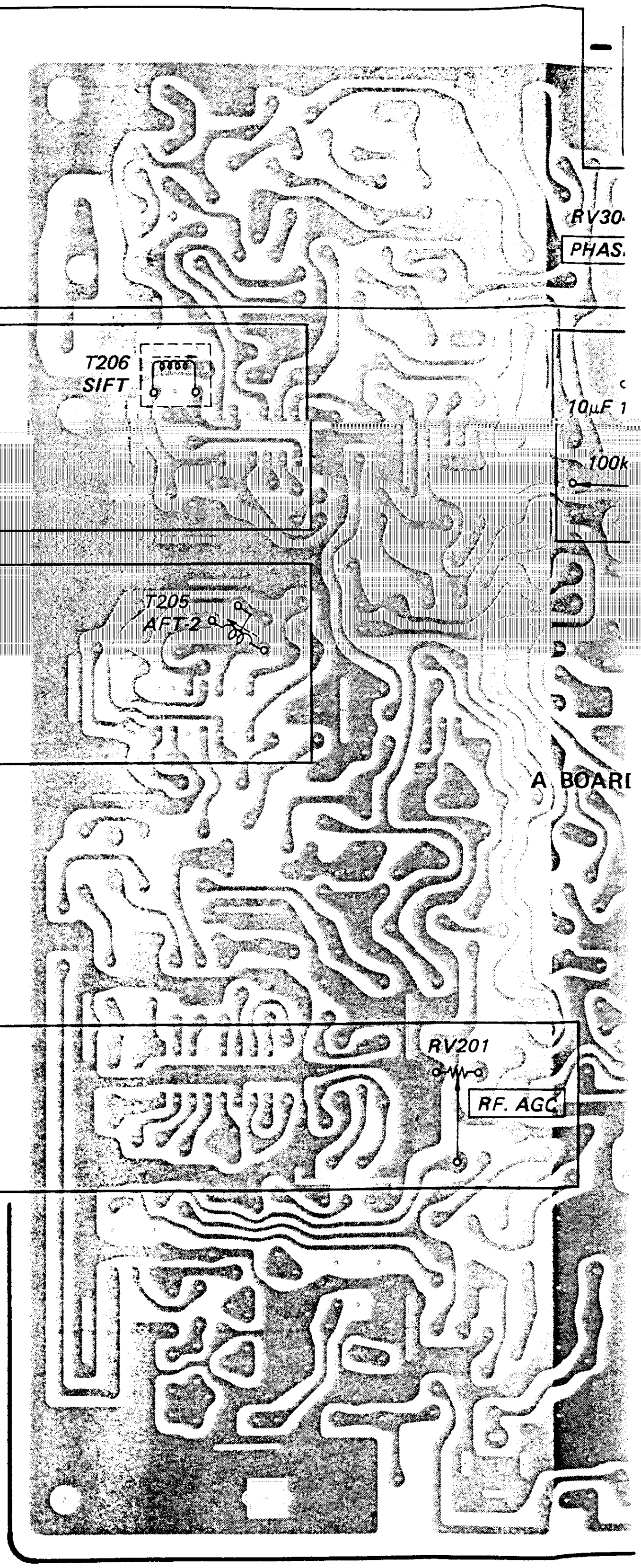
1. *Tune in an off-air signal.*
2. *Set AFT switch to OFF (manual operation).*
3. *Turn tuning knob clockwise to obtain 1.57 MHz beat.*
4. *Set tuning knob to the point where the 1.57MHz beat just disappears by slowly turning tuning knob counterclockwise.*
5. *Set AFT switch to ON. The 1.57 MHz if the adjustment is improper.*
6. *Set T205 to the point where the 1.57MHz beat just disappears or normal colour is obtainable.*

1.57MHz beat

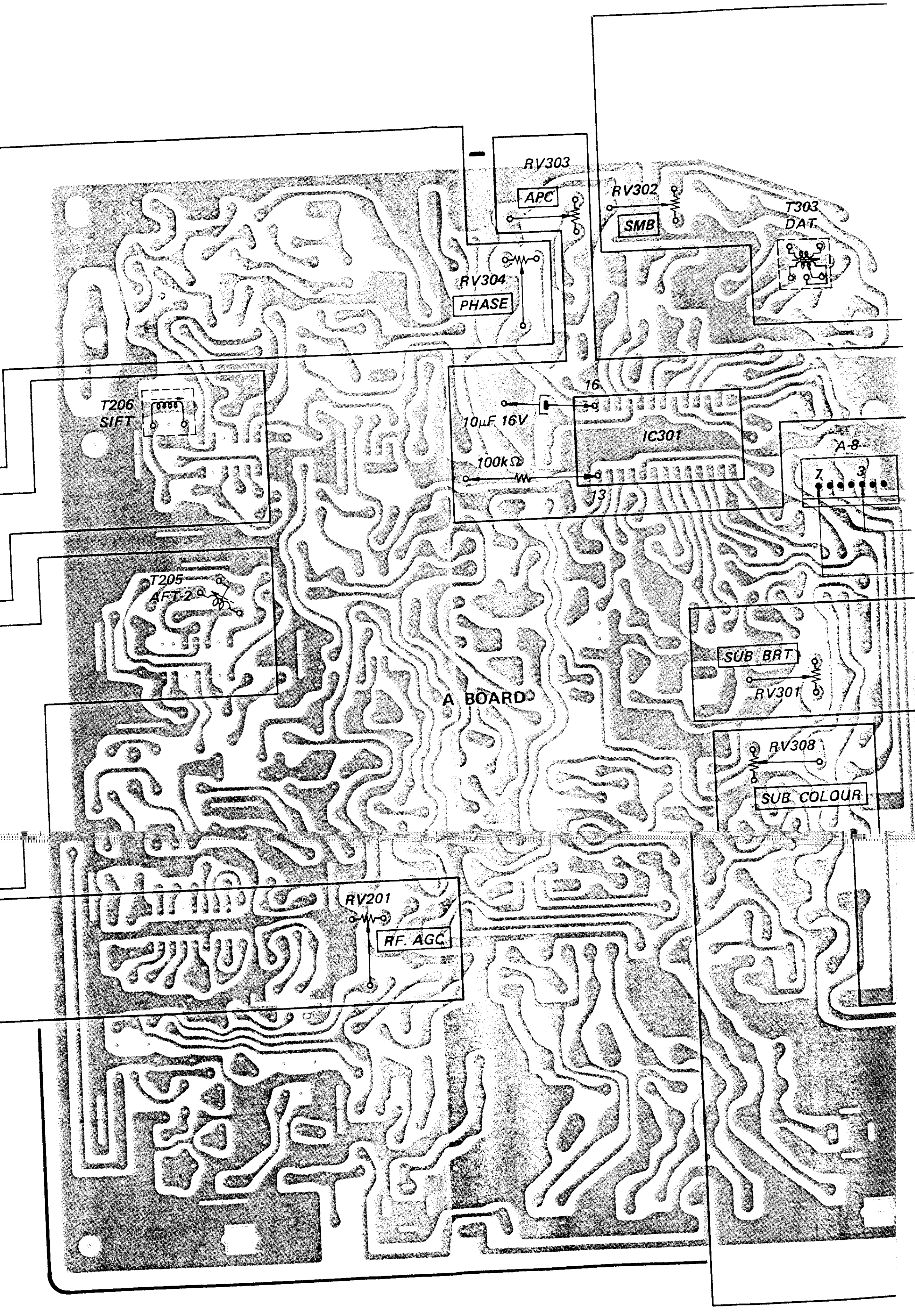


RF AGC

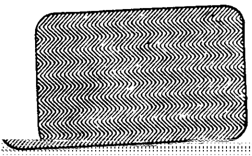
1. *Tune in an off-air signal.*
2. *Adjust RV201 so that snow-noise cross-modulation just disappear from the picture.*

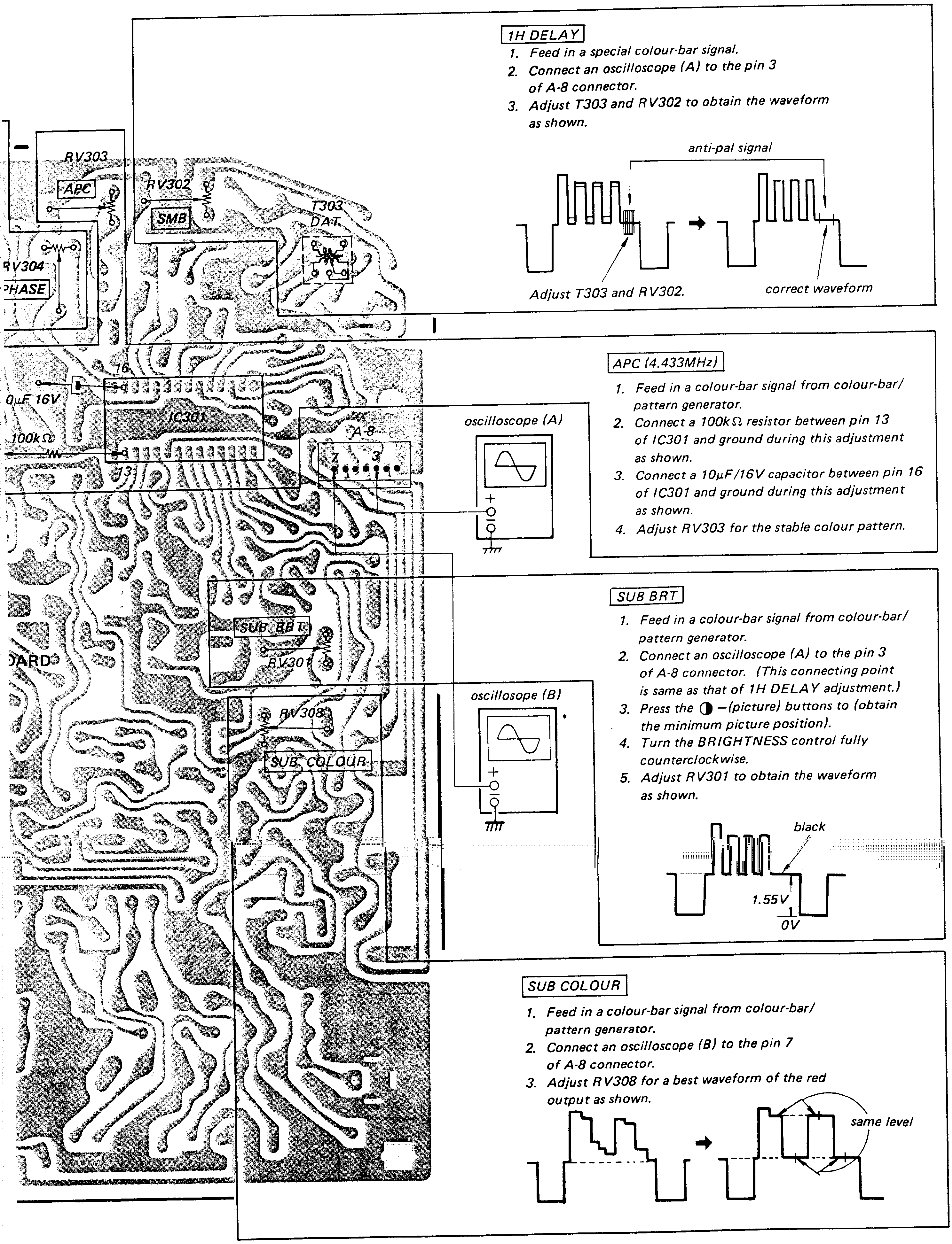


al


RV303
APC
RV302
SMB
T303
DAT
RV304
PHASE
T206
SIFT
16
10μF 16V
IC301
100kΩ
13
A-8
7
3
T205
AFT-2
SUB BRT
RV301
A BOARD
RV308
SUB COLOUR
RV201
RF. AGC

1.57MHz beat




RV303
APC
RV302
SMB
T303
DAT
RV304
PHASE
16
0μF 16V
IC301
100kΩ
13
A-8
7
3
oscilloscope (A)
SUB BRT
RV301
ARD
RV308
SUB COLOUR
oscillosope (B)
anti-pal signal
Adjust T303 and RV302.
correct waveform
black
1.55V
0V
same level

1H DELAY

1. Feed in a special colour-bar signal.
2. Connect an oscilloscope (A) to the pin 3 of A-8 connector.
3. Adjust T303 and RV302 to obtain the waveform as shown.

APC (4.433MHz)

1. Feed in a colour-bar signal from colour-bar/ pattern generator.
2. Connect a 100kΩ resistor between pin 13 of IC301 and ground during this adjustment as shown.
3. Connect a 10μF/16V capacitor between pin 16 of IC301 and ground during this adjustment as shown.
4. Adjust RV303 for the stable colour pattern.

SUB BRT

1. Feed in a colour-bar signal from colour-bar/ pattern generator.
2. Connect an oscilloscope (A) to the pin 3 of A-8 connector. (This connecting point is same as that of 1H DELAY adjustment.)
3. Press the ◑ –(picture) buttons to (obtain the minimum picture position).
4. Turn the BRIGHTNESS control fully counterclockwise.
5. Adjust RV301 to obtain the waveform as shown.

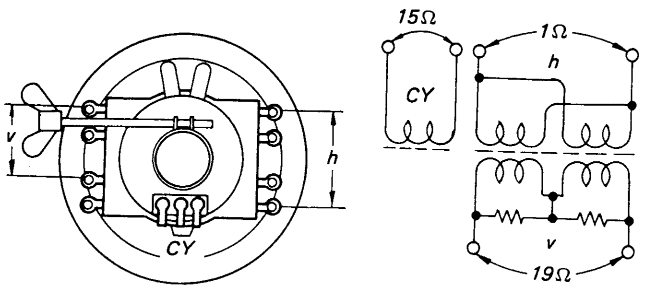
SUB COLOUR

1. Feed in a colour-bar signal from colour-bar/ pattern generator.
2. Connect an oscilloscope (B) to the pin 7 of A-8 connector.
3. Adjust RV308 for a best waveform of the red output as shown.

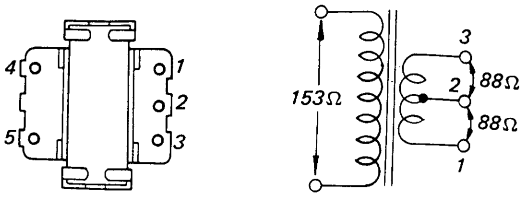
SECTION 5
DIAGRAMS

5-1. DC RESISTANCES AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

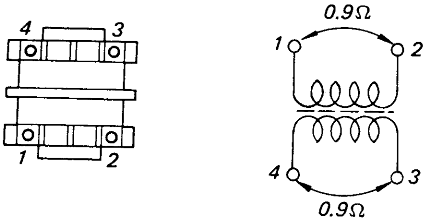
L904 DY


15Ω
1Ω
h
CY
v
h
CY
v
19Ω

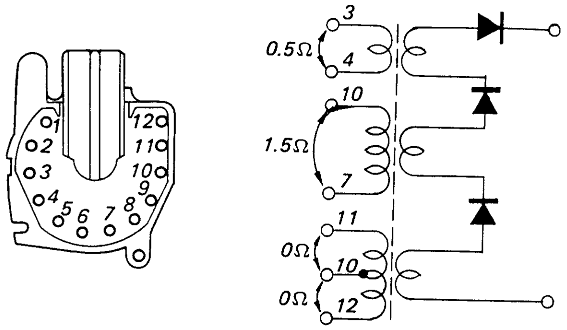
T651 PT


4
5
1
2
3
153Ω
3
2
88Ω
88Ω
1

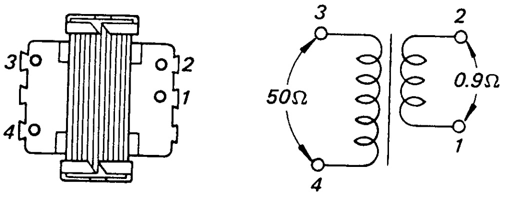
T601 LFT


4
3
1
2
0.9Ω
1
2
4
3
0.9Ω

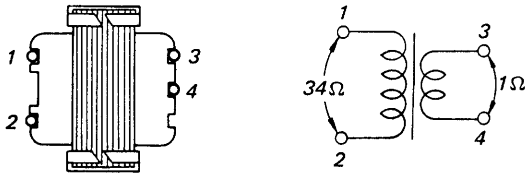
T802 FBT


1
2
3
4
5
6
7
8
9
10
11
12
3
0.5Ω
4
10
1.5Ω
7
11
0Ω
10
0Ω
12

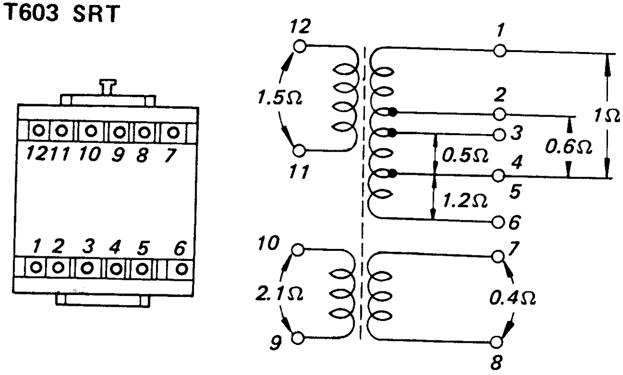
T602 RDT


3
4
2
1
3
50Ω
4
2
0.9Ω
1

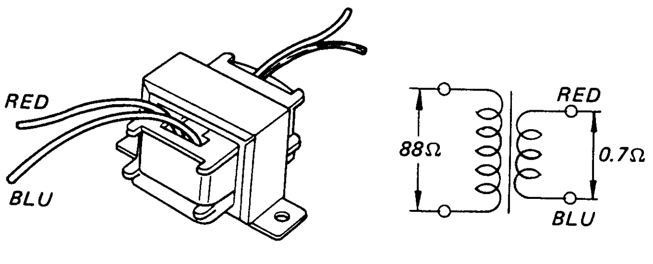
T803 HDT


1
2
3
4
1
34Ω
2
3
1Ω
4

T603 SRT


12 11 10 9 8 7
1 2 3 4 5 6
12
1.5Ω
11
1
2
3
4
5
6
1Ω
0.6Ω
0.5Ω
1.2Ω
10
2.1Ω
9
7
0.4Ω
8

T901 SOT


RED
BLU
88Ω
RED
0.7Ω
BLU

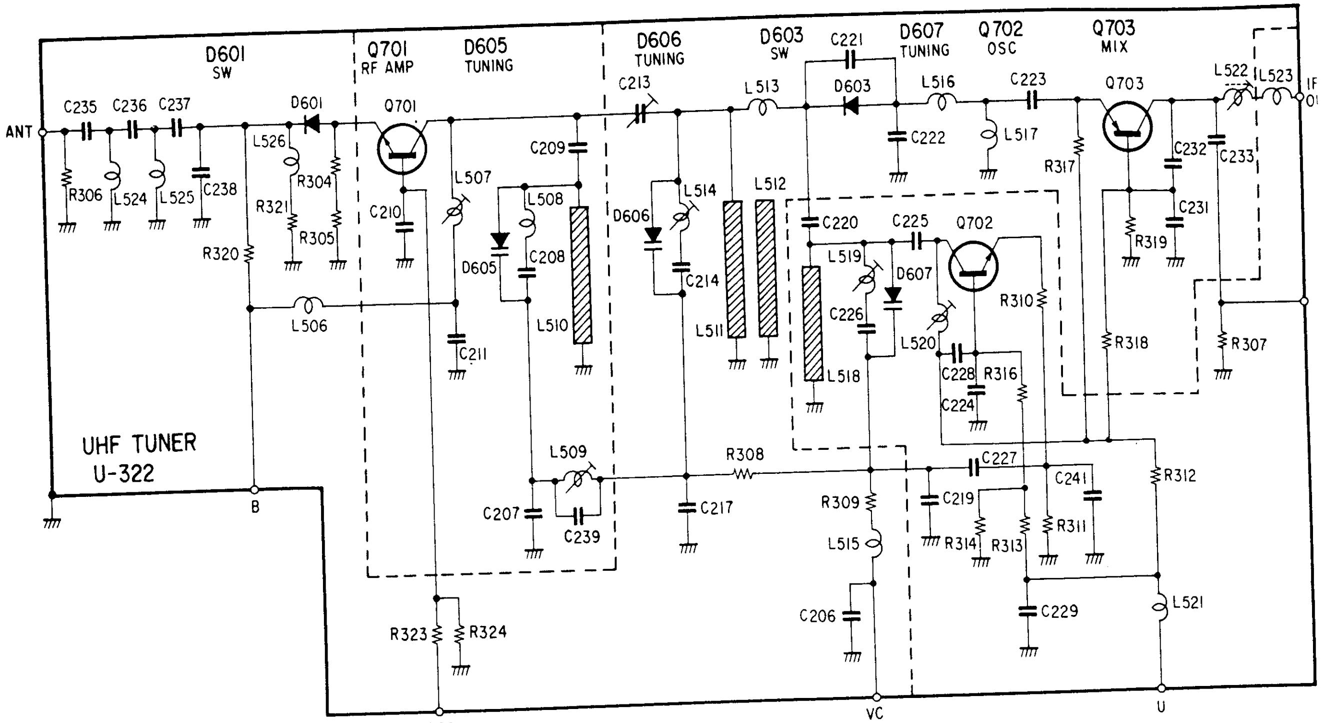
Note:

- DC resistance measurements shown with coils and transformers disconnected from circuit.

5-2. UHF TUNER SCHEMATIC DIAGRAM

– UHF Tuner –

(U-322)



ANT
D601
SW
Q701
RF AMP
D605
TUNING
D606
TUNING
D603
SW
C221
D607
TUNING
Q702
OSC
Q703
MIX
C235
C236
C237
D601
Q701
C213
L513
D603
L516
C223
Q703
L522
L523
IF
R306
L524
L525
C238
L526
R304
R321
R305
R320
C210
L507
C209
L508
D605
C208
L510
L506
C211
D606
L514
C214
L512
L511
C220
C225
Q702
L519
D607
C226
L518
L520
C228
R316
C224
R310
C222
L517
R317
C232
C233
C231
R319
R318
R307
UHF TUNER
U-322
B
L509
C207
C239
R308
C217
C227
R309
C219
C241
R312
R314
R313
R311
L515
C206
C229
L521
R323
R324
AGC
VC
U

- Tuner reference numbers are not included in the Electrical Parts List (Page 40 to 47).

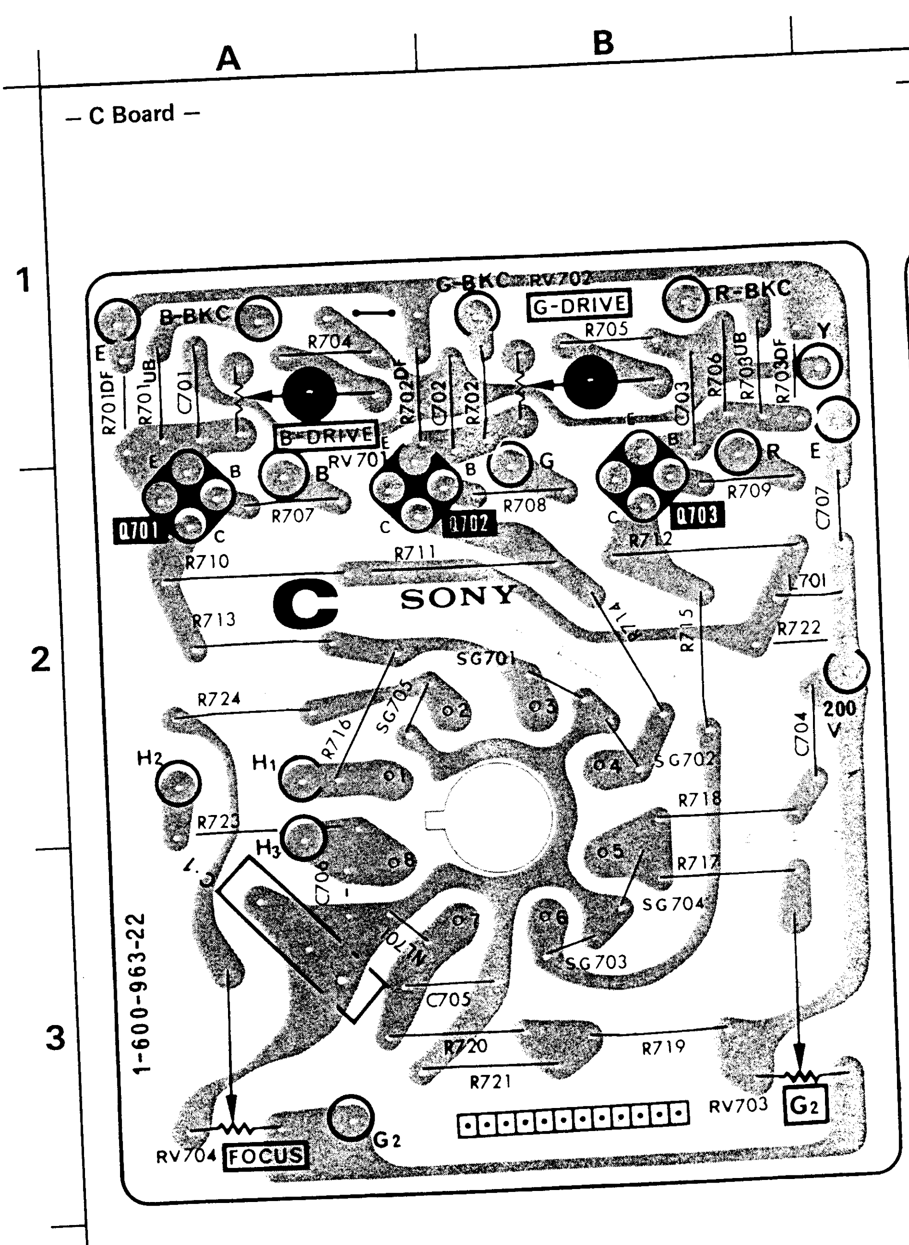
C [R·G·B· OUT]

M1 [CUSTOME CONTROL INDICATOR]

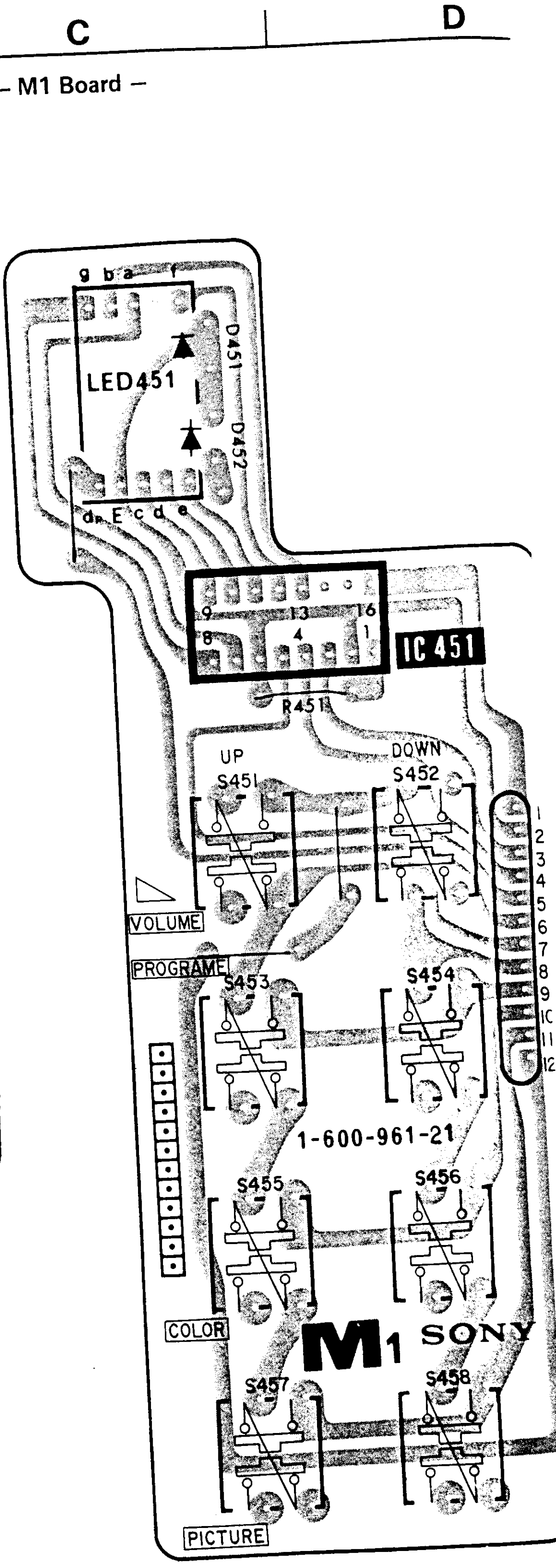
5-3. MOUNTING DIAGRAMS

– Conductor Side –

– C Board –


A
B
1
2
3
4
5
B-BKC
G-BKC
RV702
R-BKC
G-DRIVE
B-DRIVE
R704
R705
R701DF
R701UB
C701
R702DF
C702
R702
C703
R706
R703UB
R703DF
Y
E
B
G
R
C
RV701
Q701
Q702
Q703
R707
R708
R709
R710
R711
R712
C707
L701
C
SONY
R713
R714
R715
R722
SG701
200 V
R724
R716
SG705
C704
H2
H1
H3
SG702
R723
R718
R717
C709
SG704
SG703
L702
C705
R720
R719
R721
1-600-963-22
RV703
G2
RV704
FOCUS

– M1 Board –


C
D
g b a f
LED451
D451
D452
d E c d e
IC451
9
8
13
16
4
1
R451
UP
DOWN
S451
S452
VOLUME
PROGRAME
S453
S454
1
2
3
4
5
6
7
8
9
10
11
12
1-600-961-21
S455
S456
COLOR
M1
SONY
S457
S458
PICTURE

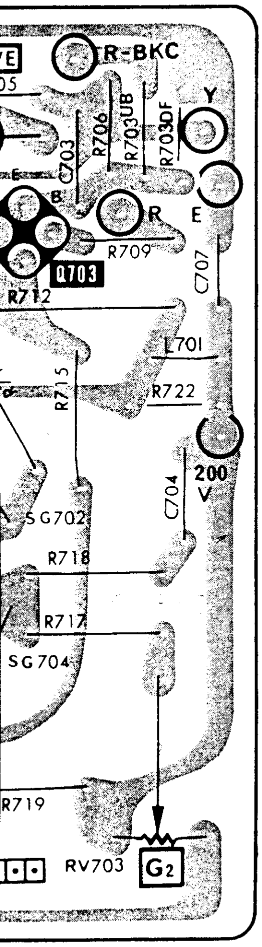
[R·G·B· OUT] **C** [CUSTOME CONTROL INDICATOR] **M1** **H** [CUSTOME CONTROL] **X** [AMP]

B C D A B

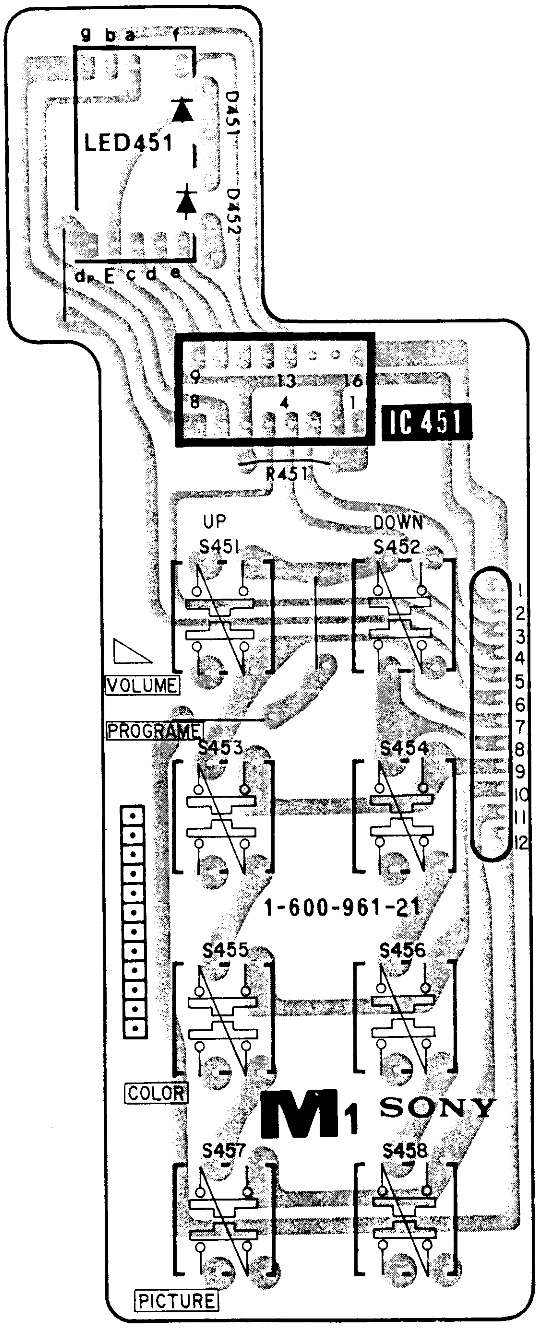
— M1 Board —

— H Board —

1

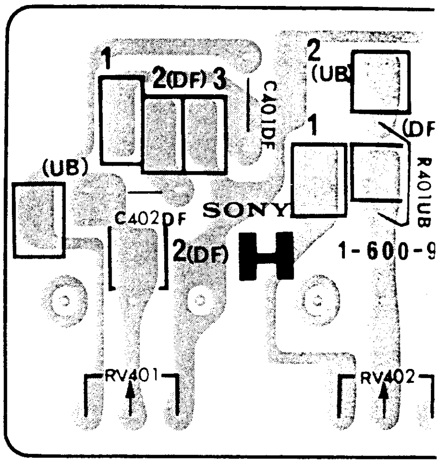


R-BKC
05
R706
R703UB
R703DF
Y
C703
E
B
R
E
R709
Q703
R712
C707
L701
R715
R722
200 V
C704
SG702
R718
R717
SG704
R719
RV703
G2



g b a f
LED451
D451
D452
dP E c d e
9
8
13
16
4
1
IC 451
R451
UP
S451
DOWN
S452
1
2
3
4
5
6
7
8
9
10
11
12
VOLUME
PROGRAME
S453
S454
1-600-961-21
S455
S456
COLOR
M1
SONY
S457
S458
PICTURE

2



1
2(DF) 3
C401DF
2
(UB)
1
(DF
R401UB
(UB)
C402DF
SONY
2(DF)
H
1-600-9
RV401
RV402

3

4

5

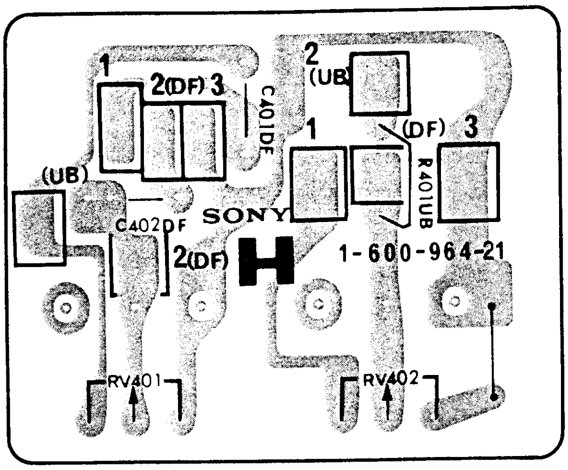
4UB **KV-2204UB** *SCC-244A-A*

M1 **H** [CUSTOME CONTROL] **X** [AMP]

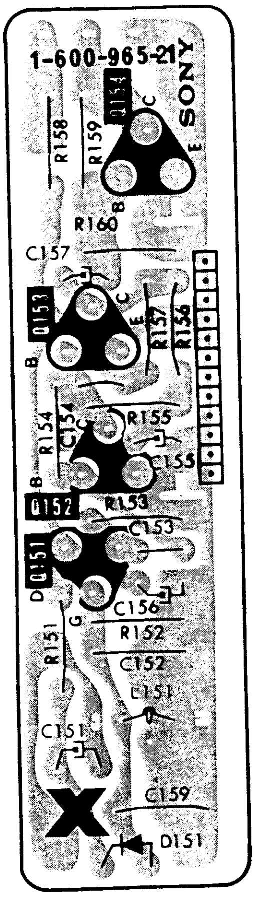
D A B C D

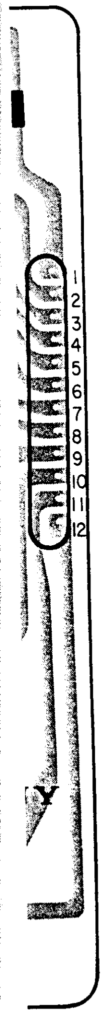
1 2 3 4 5

— H Board —


1
2(DF) 3
C401DF
2
(UB)
(DF) 3
1
R401UB
(UB)
C402DF
SONY
2(DF)
H
1-600-964-21
RV401
RV402

— X Board —

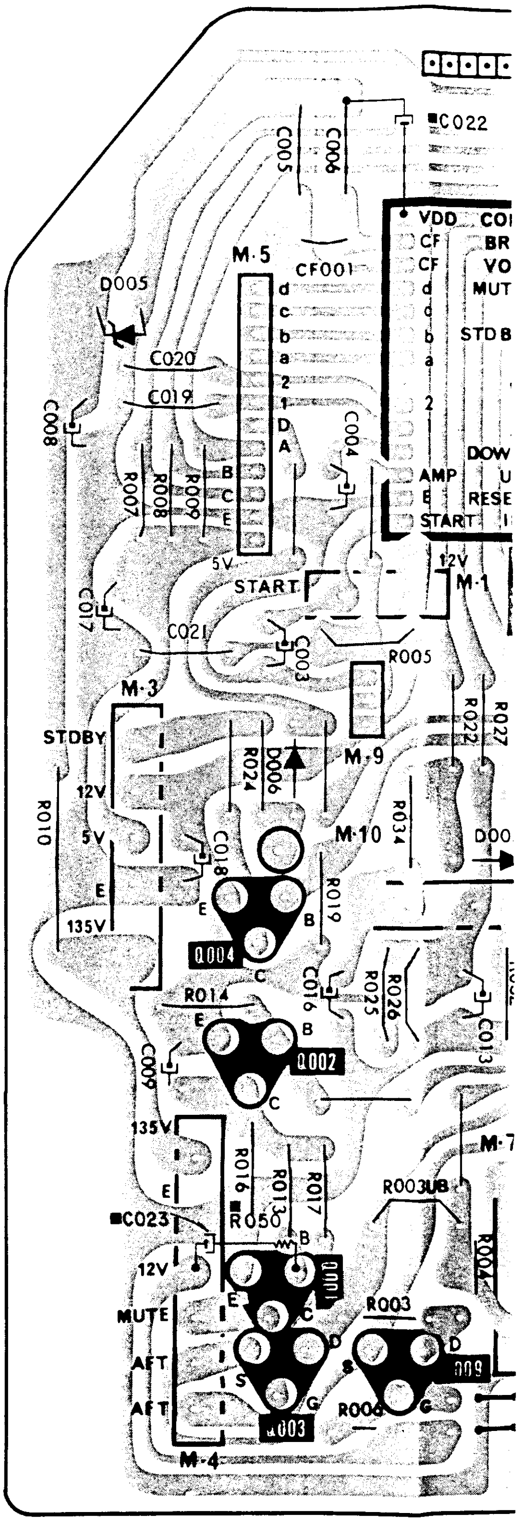

1-600-965-21
SONY
Q154
C
E
B
R158
R159
R160
C157
Q153
R157
R156
R154
C154
R155
C155
Q152
R153
C153
Q151
D
G
C156
R152
R151
C152
L151
C151
C159
X
D151


1
2
3
4
5
6
7
8
9
10
11
12

A B C

— M2 Board —

	Q, IC	D	ADJ
1			RV001
	IC001		
			RV002
	IC003		
			RV003
2		005	
			RV004
			RV005
	IC002		RV006
3			RV007
	004	001	RV008
4	002		
			RV009
	001		
	003		
5	Q, IC		


C022
C005
C006
VDD
CF
CF
d
c
b
a
2
CO
BR
VO
MUT
STD B
DOW
U
AMP
E
RESE
START
M·5
CF001
D005
C020
C019
C008
R007
R008
R009
B
C
E
d
c
b
a
2
1
D
A
C004
5V
START
12V
M·1
C017
C021
C003
R005
M·3
STDBY
12V
5V
E
135V
R010
R024
D006
M·9
R022
R027
C018
M·10
R034
D00
Q004
E
B
C
R019
C016
R025
R026
C013
R014
Q002
C009
135V
E
R016
R013
R017
M·7
R003UB
R004
C023
R050
12V
MUTE
AFT
AFT
Q001
R003
Q003
S
G
D
009
R006
M·4

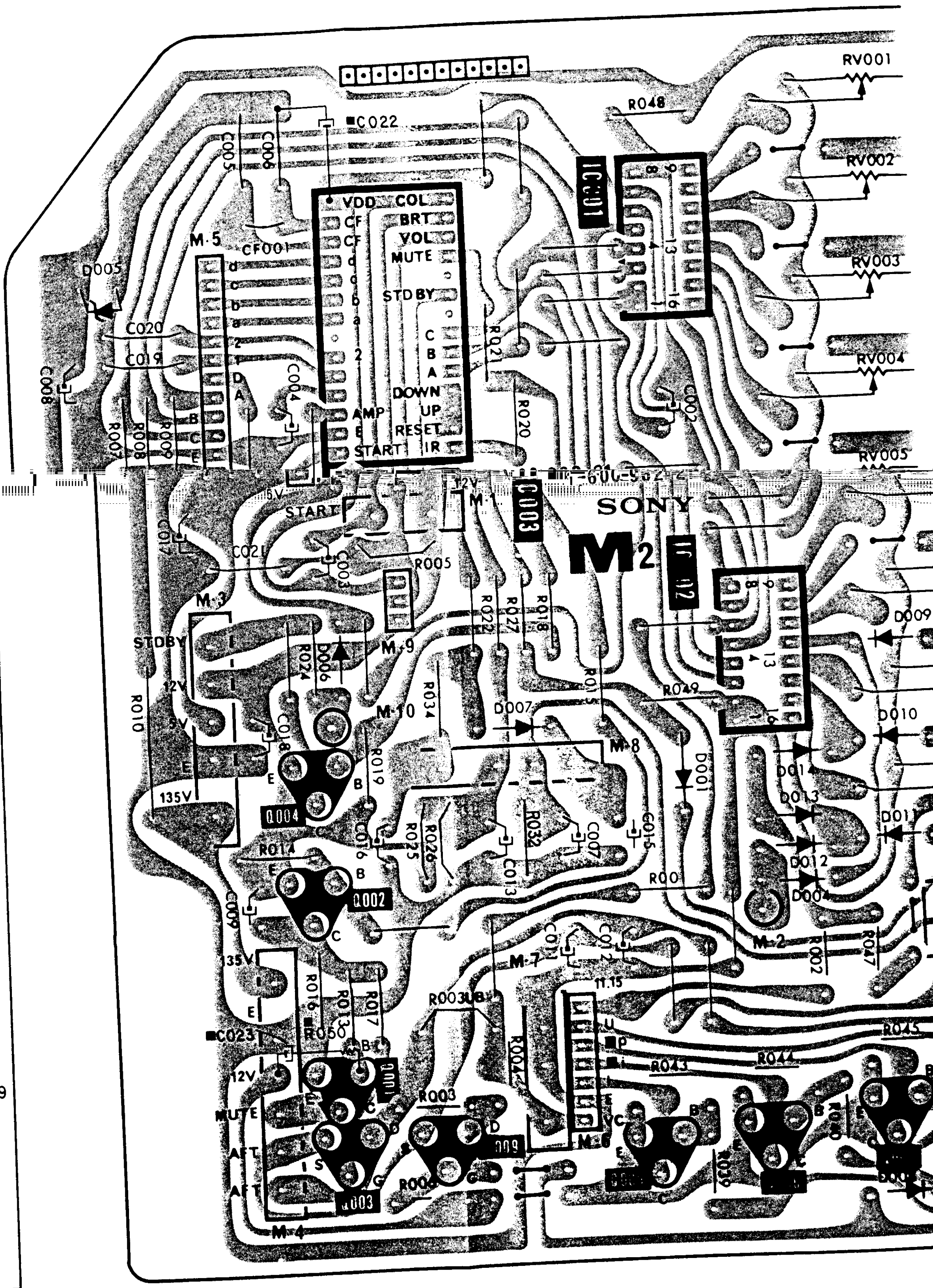
M2 **M2** [CH SELECT, CH PRESET, STANDBY, AFT REMOTE CONTROL]

B C D E

C	D	ADJ
		RV001
C001		RV002
	005	RV003
		RV004
		RV005

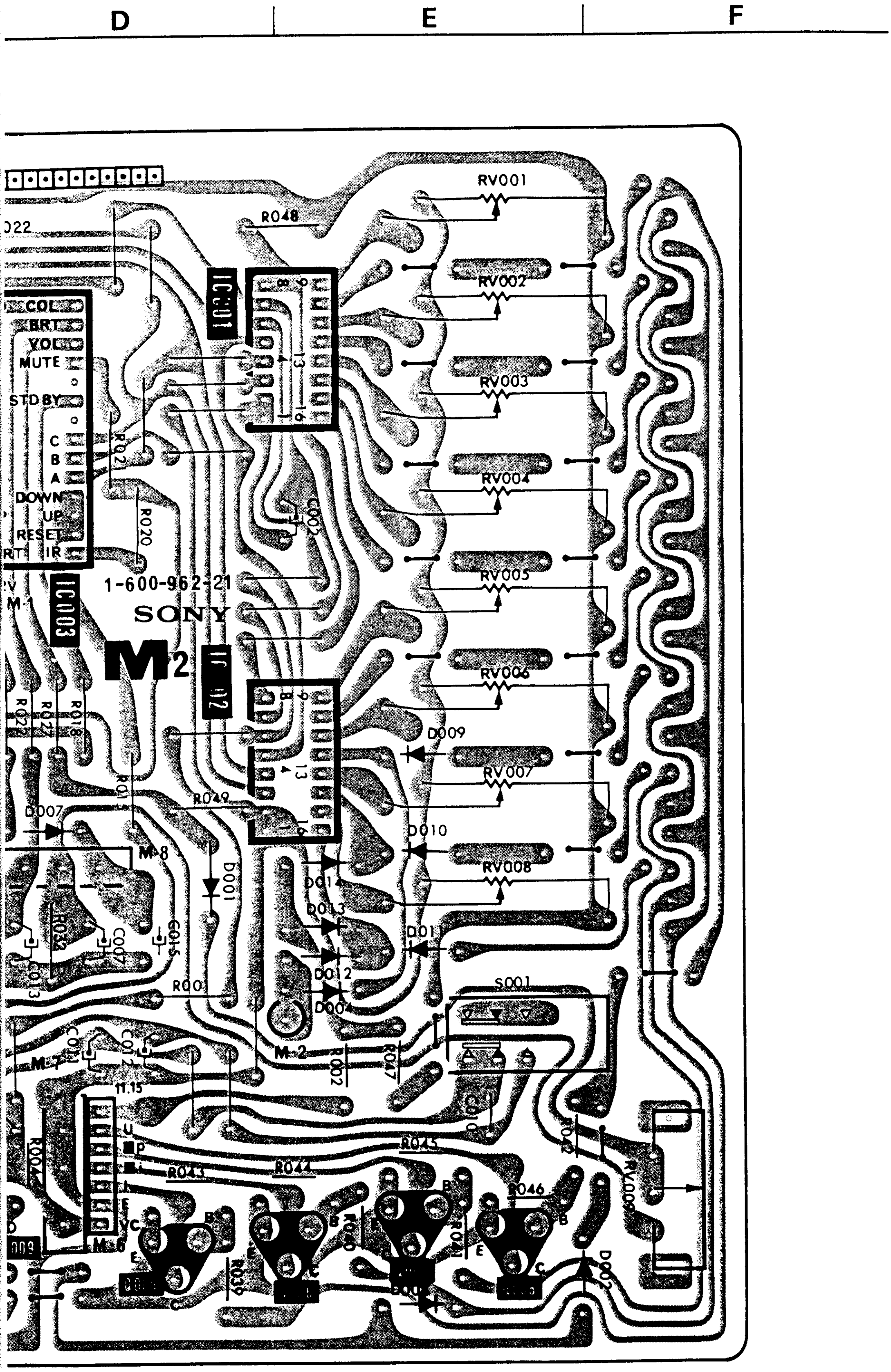
002		RV006
		RV007
	001	RV008
		RV009
IC		

RV006
RV007
RV008
S001



RV001
RV002
RV003
RV004
RV005
R048
IC001
C022
C005
C006
VDD
COL
BRT
VOL
MUTE
STD BY
DOWN
UP
RESET
AMP
START
IR
M-5
CF001
D005
C020
C019
C008
C004
R007
R008
R009
R021
R020
C002
SONY
M2
IC002
C003
C017
C021
R005
M-1
M-3
M-9
M-10
M-8
STDBY
12V
5V
135V
R010
R024
D006
R022
R027
R018
R015
R034
D007
R049
D001
D009
D010
D014
D013
D011
D012
D004
C018
R019
Q004
Q002
R014
C016
R025
R026
R032
C013
C007
C015
R001
C009
R016
R013
R017
R050
C023
C011
C012
M-7
M-2
R002
R047
R003UB
R004
11.15
R045
R043
R044
Q001
Q003
R003
R006
M-6
R039
R040
MUTE
AFT
M-4
E
B
C
S
G
D

M2 [CH SELECT, CH PRESET, STANDBY, AFT
REMOTE CONTROL]


D
E
F
RV001
RV002
RV003
RV004
RV005
RV006
RV007
RV008
RV009
R048
IC001
IC002
IC003
COL
BRT
VOL
MUTE
STD BY
C
B
A
DOWN
UP
RESET
IR
RT
R020
C002
1-600-962-21
SONY
M2
D009
D010
D011
D012
D013
D014
D001
D002
D004
D007
R049
R001
R002
R047
R042
R043
R044
R045
R046
R030
S001
C010
C011
C012
C013
C015
M-1
M-2
M-6
M-7
M-8
B
C
E

TUNER, Y·CHROMA 12V REGU, VIF, AFT, SIF, AF

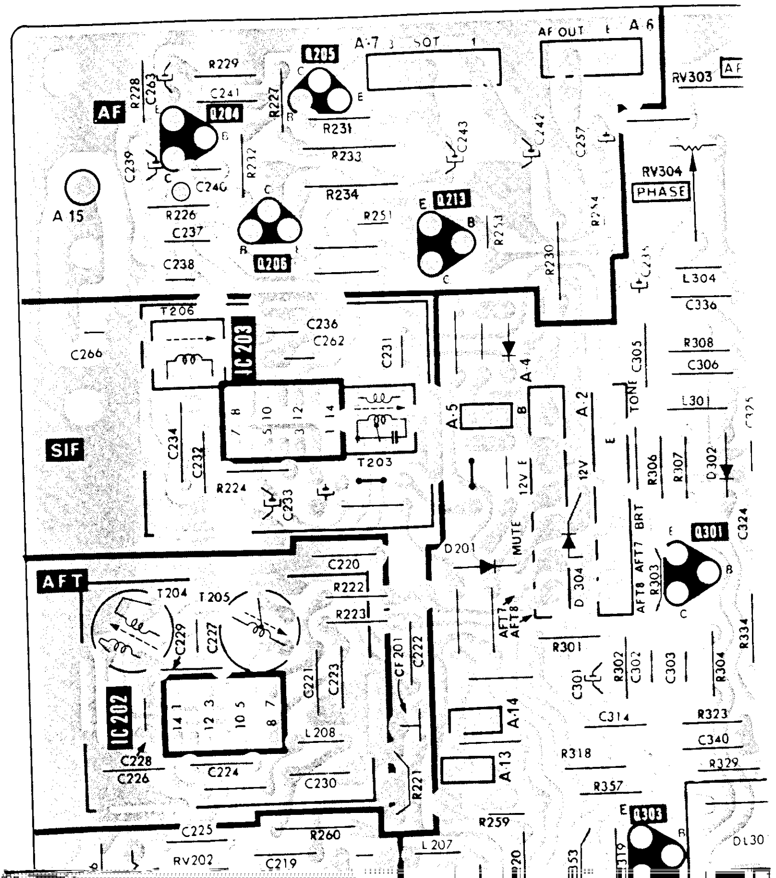
A B C

– A Board –

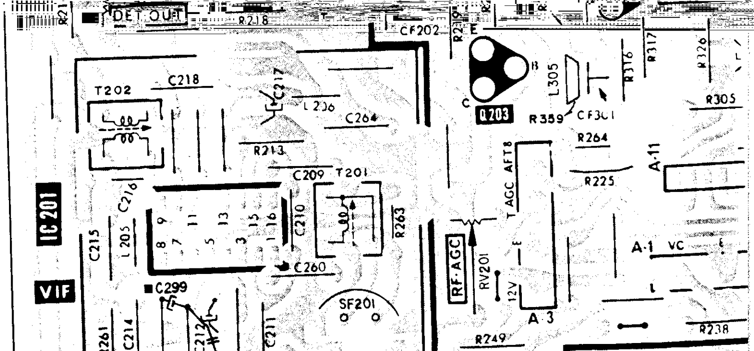
Q,IC	D	ADJ
205		RV303
		RV302
204		
		RV304
206		
305		
IC203		
	302	
IC301	305	
301	304	
	201	
	307	
IC202		
		RV301
303		

1

2


AF
SIF
AFT
A 15
A·7
A 6
AF OUT
RV303
RV304
PHASE
Q205
Q204
Q206
Q213
IC203
IC202
T206
T203
T204
T205
R229
C241
R228
C263
R227
R231
R233
R232
C239
C240
R226
C237
C238
R234
R251
C243
C242
C257
R230
L304
C336
R308
C306
C305
L301
TONE
C266
C236
C262
C231
A·5
A·4
A·2
12V
MUTE
D201
D304
D302
C234
C232
R224
C233
R306
R307
Q301
C324
C220
R222
R223
C229
C227
CF201
C222
C221
C223
L208
C228
C226
C224
C230
R221
A·14
A·13
R301
R302
C302
C303
R304
R334
C301
C314
R323
C340
R329
R318
R357
R259
Q303
C225
R260
RV202
C219
L 207

D	ADJ
	RV308
301	RV305
303	RV307
	RV201
	RV306


DET OUT
VIF
IC201
RF-AGC
R218
CF202
Q203
L305
R359
CF301
R316
R317
R326
R305
T202
C218
C217
L206
C264
R213
R264
R225
A-11
C209
T201
C216
C215
L205
C210
R263
C260
A·1
VC
C299
SF201
RV201
12V
A·3
R261
C214
C212
C211
R249
R238
T207
R214
C208
T208
R215
C248
R240
C247
IF
VC
Q202
R211
C207
R219
R210
C258
R206
R203
Q201
C205
R207
L201
R202
R255
C254
Q208
IF OUT
C204
R204
C203
C202
R201
R205
C201
J202
IF OUT
R256
Q214
C253

3

4

5

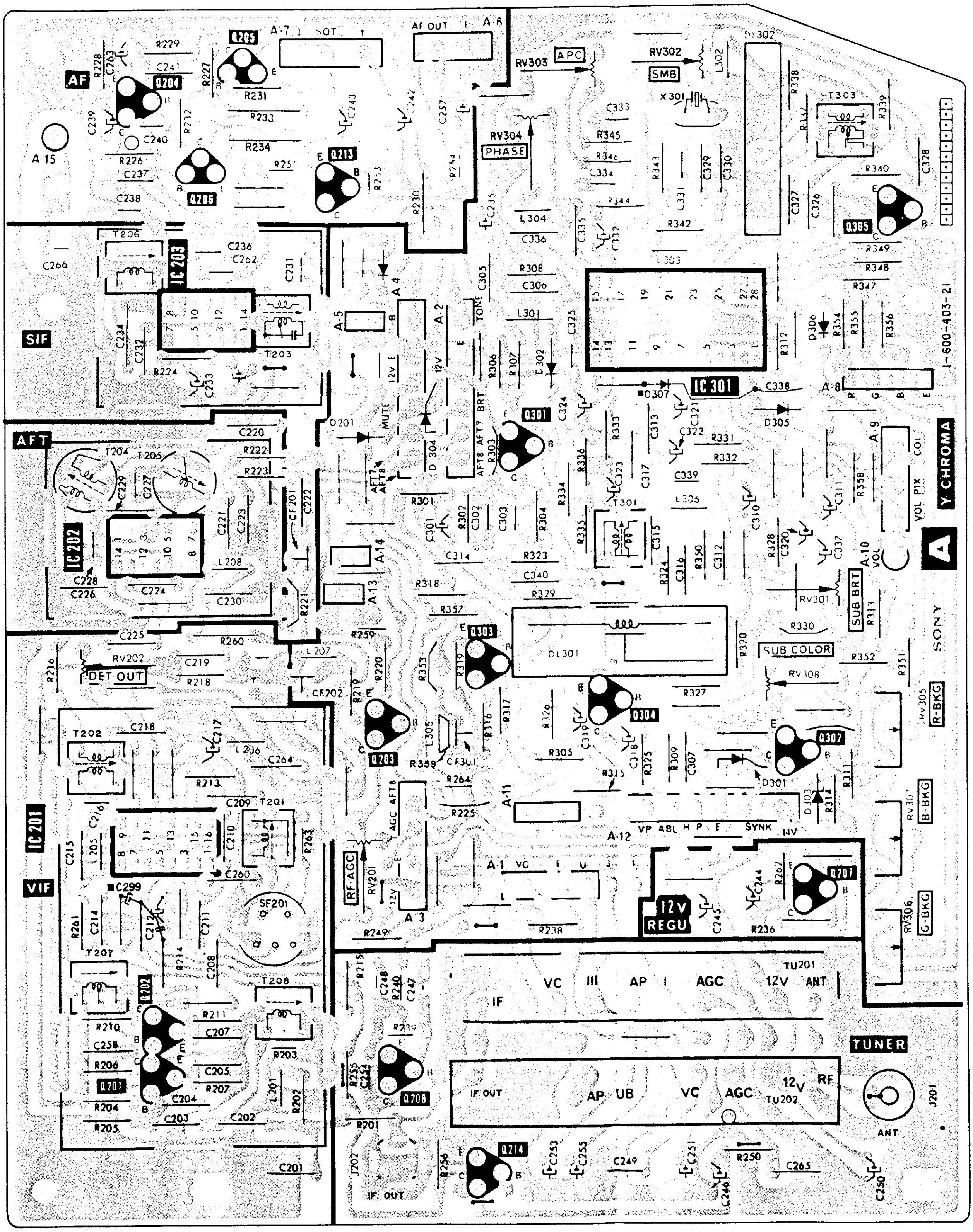
Q,IC
304
302
203
IC201
207
202
201
214

TUNER, Y·CHROMA
12V REGU, VIF, AFT,
SIF, AF

A **A**

B C D E

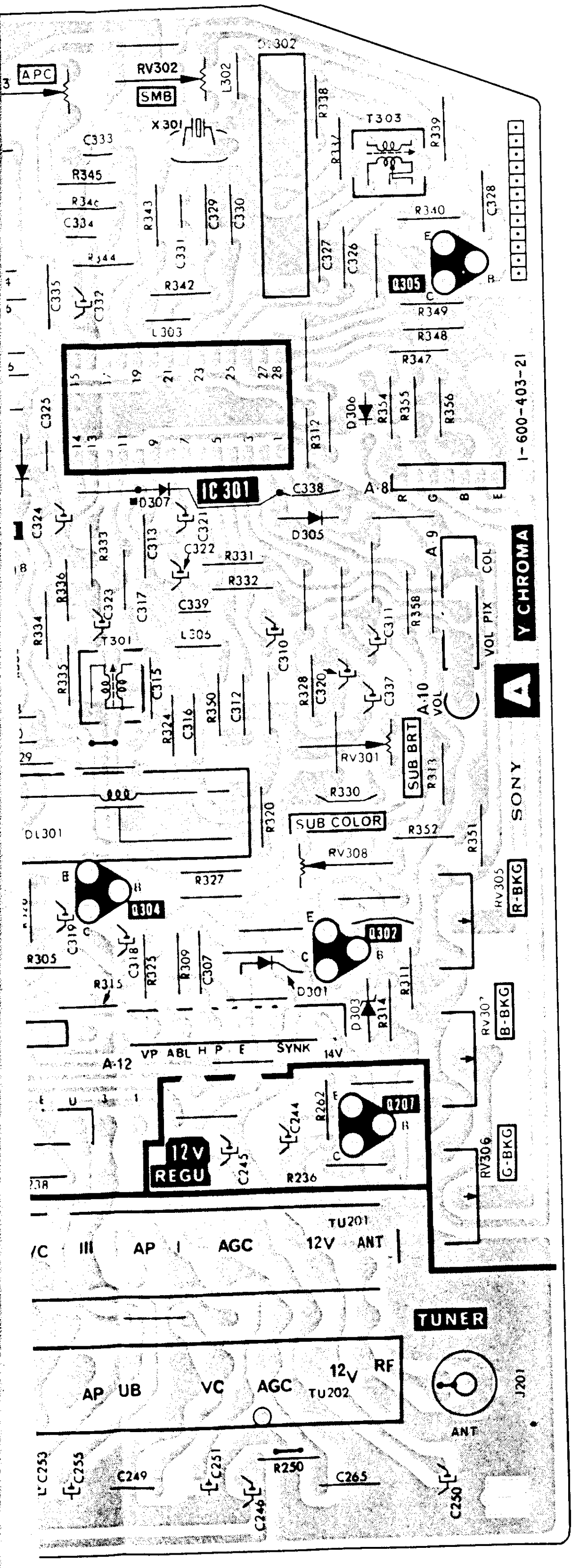
D	ADJ
	RV303 RV302
	RV304
302	
305	
304	
01	
307	
	RV301
	RV202
	RV308
301	RV305
303	
	RV307
	RV201
	RV306
D	ADJ


AF
SIF
AFT
VIF
IC 201
IC 202
IC 203
IC 301
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
Q213
Q214
Q301
Q302
Q303
Q304
Q305
A·7 SOT
AF OUT A·6
A15
RV303 APC
RV302 SMB
RV304 PHASE
X301
DL302
T303
T201
T202
T203
T204
T205
T206
T207
T208
T301
DL301
SF201
CF201
CF202
CF301
MUTE
12V
TONE
BRT
AFT7
AFT8
DET OUT
RV202
RV201
RF·AGC
RV301
SUB BRT
SUB COLOR
RV308
RV305 R-BKG
RV307 B-BKG
RV306 G-BKG
VOL PIX COL
A·10 VOL
Y CHROMA
A
SONY
1-600-403-21
A·8 R G B E
A·9
12V REGU
VP ABL H P E SYNK 14V
A·12
A·1 VC E U 3
A·3
A·11
A·13
A·14
A·2
A·4
A·5
TU201
IF VC III AP I AGC 12V ANT
TU202
IF OUT AP UB VC AGC 12V RF
TUNER
J201
ANT
J202
IF OUT

-UB KV-2204UB *SCC-244A-A*

A **A**

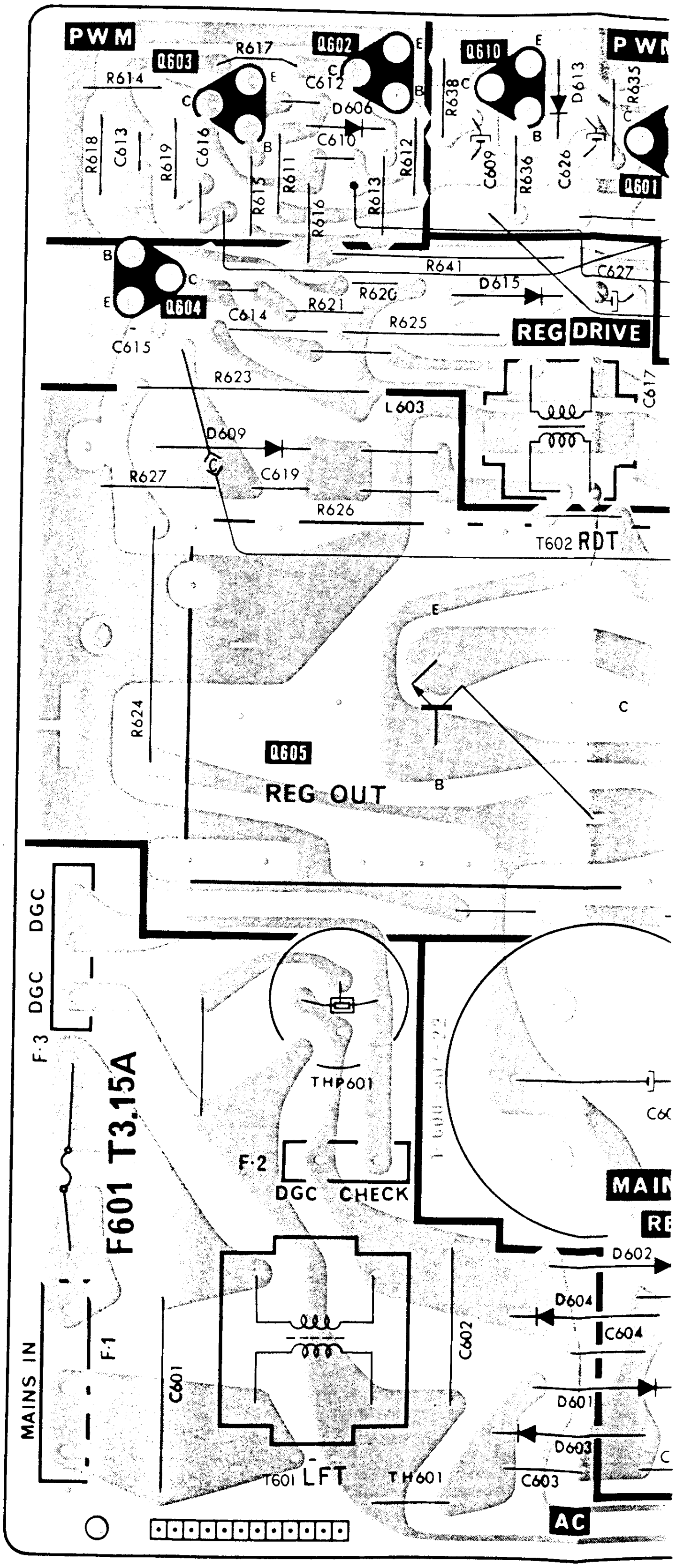
D E F


APC
RV302
SMB
L302
D1302
X301
C333
R345
R346
C334
R344
R343
C329
C330
C331
R342
L303
C335
C332
R338
R337
T303
R339
R340
C328
C327
C326
Q305
R349
R348
R347
D306
R354
R355
R356
R312
1-600-403-21
A-8
R G B E
IC301
D307
C338
D305
C325
C324
R333
C313
C321
C322
R331
R332
R336
C323
C317
C339
L306
R334
T301
R335
C315
C316
R324
R350
C312
C310
R328
C320
C337
C311
R358
A-9
COL PIX VOL
Y CHROMA
A-10
VOL
RV301
SUB BRT
R313
R330
SUB COLOR
R352
R351
SONY
A
R320
DL301
Q304
R327
RV308
RV305
R-BKG
C319
C318
R305
R315
R325
R309
C307
D301
Q302
D303
R314
R311
RV307
B-BKG
A-12
VP ABL H P E
SYNK
14V
C244
R262
Q207
C245
12V REGU
R236
RV306
G-BKG
TU201
VC III AP I AGC 12V ANT
TUNER
AP UB VC AGC 12V RF
TU202
J201
ANT
C253
C255
C249
C251
C246
R250
C265
C250

A B C D

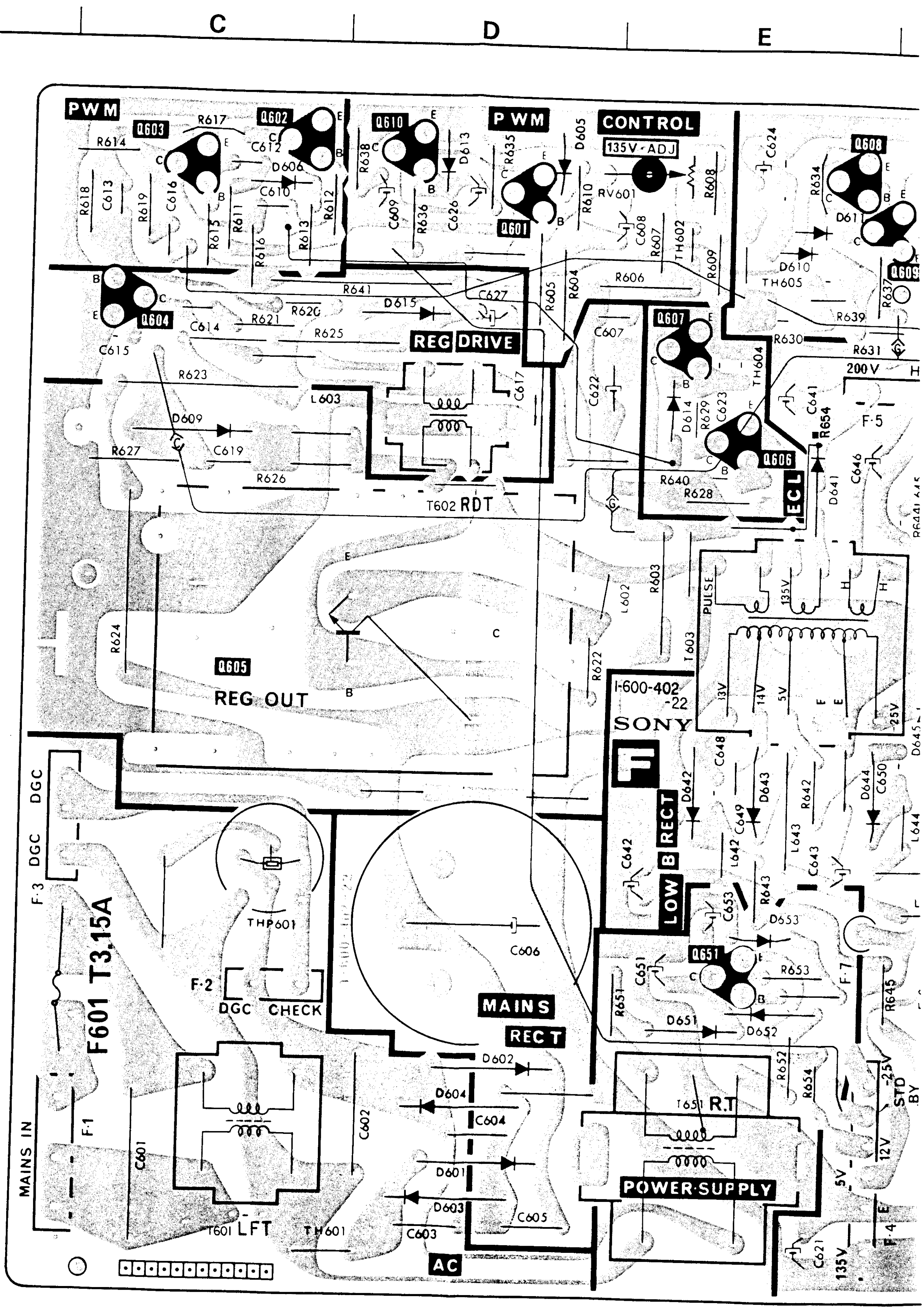
– F Board –

	Q	D	ADJ
1	602 603 610 601 608 609 607 604	613 605 606 612 615	RV601
2	606	614 609 641 646	
3	605	645 643 642 650 653	
4	651	652 651 602 604 601 603	
5			
	Q	D	ADJ


PWM
Q603
R617
Q602
Q610
PWM
R614
C612
R638
D613
R635
D606
C610
R618
C613
R619
C616
R615
R611
R616
R613
R612
C609
R636
C626
Q601
R641
C627
Q604
C614
R621
R620
D615
R625
C615
REG
DRIVE
R623
L603
C617
D609
C619
R627
R626
T602 RDT
R624
Q605
REG OUT
E
B
C
DGC
DGC
F-3
F601 T3.15A
THP601
F-2
DGC
CHECK
MAIN
RE
D602
D604
C604
D601
D603
C603
MAINS IN
F-1
C601
C602
T601 LFT
TH601
AC

F F [POWER·SUPPLY CONTROL PWM, REG·DRIVE MAINS RECT]

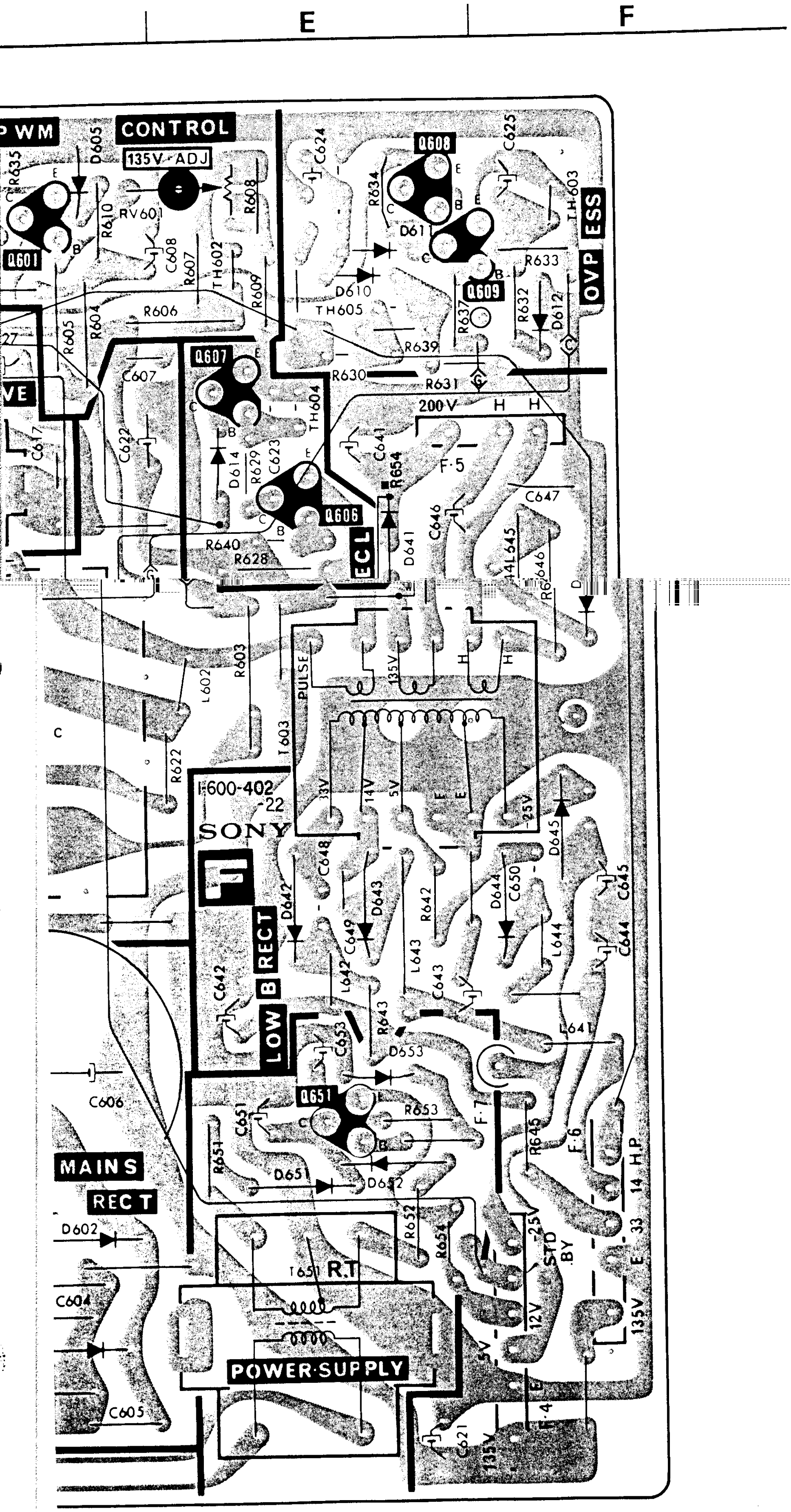
D	ADJ
613 605	RV601
606	
612	
615	
614	
609 641	
646	
645	
643	
42 650	
653	
652	
651	
02	
04	
01	
3	
D	ADJ


B
C
D
E
PWM
Q603
R617
Q602
Q610
P WM
CONTROL
135V·ADJ
RV601
Q608
R614
C612
D606
R638
D613
R635
D605
C624
R618
C613
R619
C616
C610
R615
R611
R612
R613
R616
C609
R636
C626
Q601
R610
C608
R607
TH602
R608
R609
R634
D611
D610
TH605
Q609
R637
Q604
C615
C614
R621
R620
R625
R641
D615
C627
R605
R604
R606
Q607
C607
R639
R630
R631
200V
REG DRIVE
C617
R623
L603
C622
D614
R629
C623
TH604
C641
R654
F·5
D609
C619
R627
R626
T602 RDT
R640
R628
Q606
ECL
D641
C646
R603
L602
PULSE
135V
R624
Q605
REG OUT
T603
R622
13V
14V
5V
25V
1-600-402-22
SONY
F
C648
D642
RECT
C649
D643
R642
D644
C650
L644
B
LOW
C642
L642
L643
C643
R643
C653
D653
DGC
DGC
F·3
F601 T3.15A
THP601
C606
Q651
C651
R653
F·7
R645
F·2
DGC CHECK
MAINS
RECT
R651
D651
D652
D602
R652
R654
-25V
STD BY
D604
C604
T651 R.T
MAINS IN
F·1
C601
C602
D601
POWER·SUPPLY
12V
5V
D603
C605
F·4
T601 LFT
TH601
C603
AC
C621
135V

KV-2204UB

SCC-244A-A

F POWER·SUPPLY CONTROL
PWM, REG·DRIVE
MAINS RECT

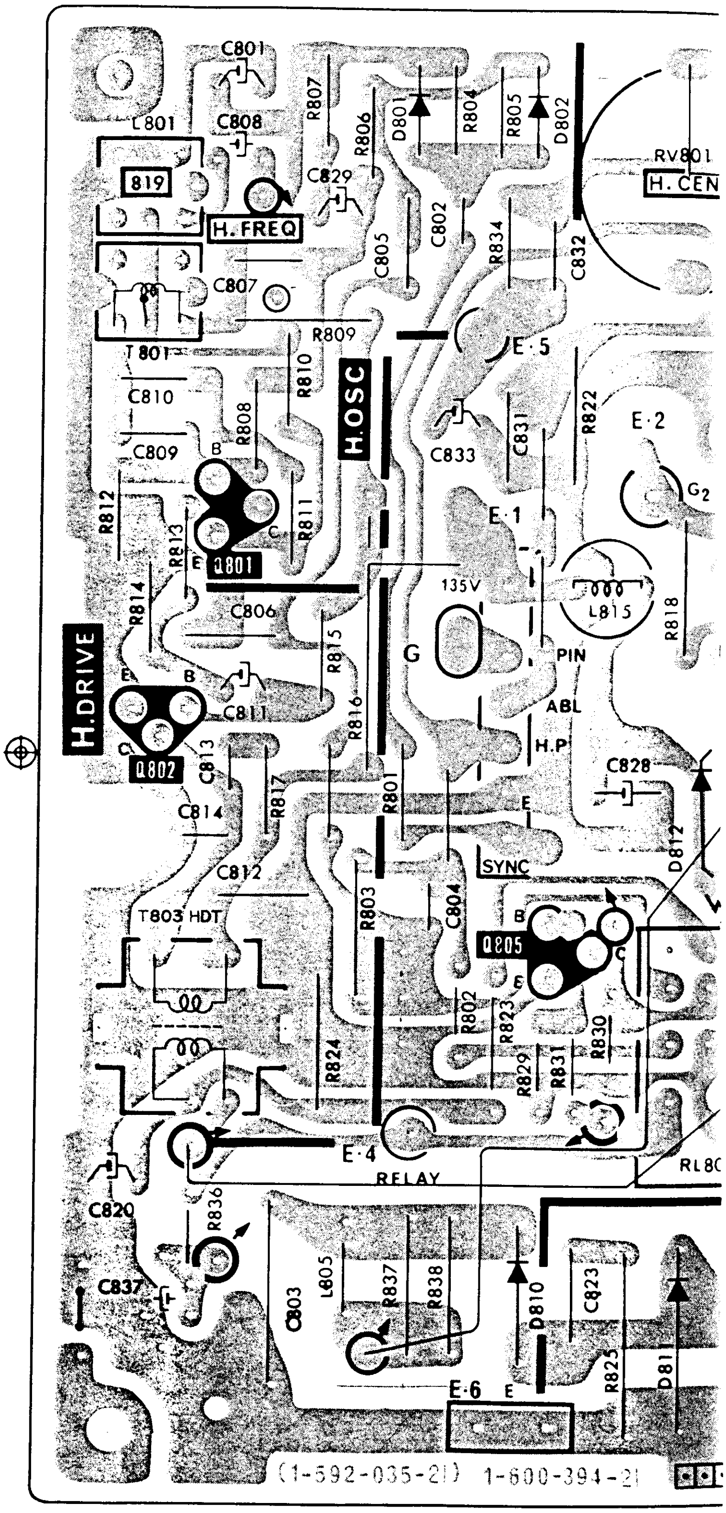


E
F
PWM
CONTROL
135V·ADJ
RV601
D605
R635
R610
R608
Q601
C608
R607
TH602
R609
R606
R604
R605
VE
C617
C607
C622
Q607
D614
R629
C623
TH604
Q606
R640
R628
ECL
C624
Q608
C625
R634
D611
TH603
ESS
OVP
D610
R633
Q609
TH605
R637
R632
D612
R639
R630
R631
200V
H
C641
R654
F·5
C647
C646
D641
L645
R646
L602
R603
T603
PULSE
135V
R622
I-600-402-22
SONY
F
13V
14V
5V
E
-25V
D645
C648
D642
D643
R642
D644
C650
C645
C649
L643
L644
C644
RECT
B
LOW
C642
L642
C643
R643
L641
C653
D653
C606
Q651
R653
F·7
C651
R645
F·6
MAINS
RECT
R651
D651
D652
14 H.P
D602
R652
R654
STD·BY
33
T651
R.T
C604
12V
135V
POWER·SUPPLY
5V
C605
F·4
C621
135V

A	B	C

– E Board –

Q	D	ADJ
	801 802	
		RV801
	806 805	
801	803	
802		
	810 811	
Q	D	ADJ


C801
L801
C808
R807
R806
D801
R804
R805
D802
RV801
H. CEN
819
C829
H. FREQ
C805
C802
R834
C832
C807
T801
R809
E·5
C810
R810
R808
H.OSC
C833
C831
R822
E·2
C809
B
C
R812
R811
E·1
G2
R813
E
Q801
135V
L815
R818
R814
C806
H.DRIVE
R815
G
PIN
E
B
C811
R816
ABL
C
Q802
C813
H.P
C828
C814
R817
R801
E
D812
C812
SYNC
T803 HDT
R803
C804
B
Q805
C
E
R802
R823
R830
R829
R831
R824
E·4
RELAY
RL80
C820
R836
L805
R837
R838
D810
C823
C837
Q803
R825
D81
E·6
E
(1-592-035-21) 1-600-394-21

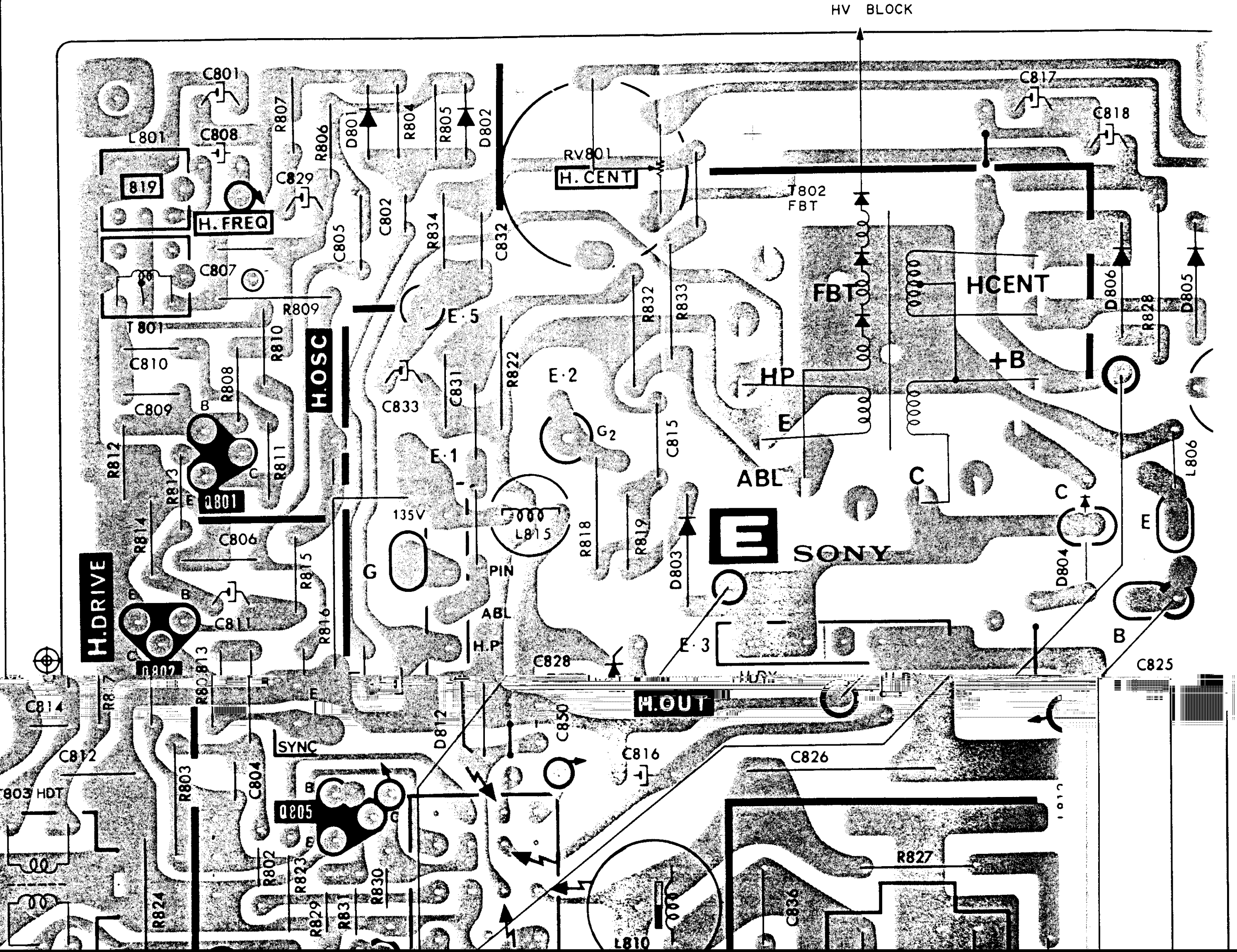
1
2
3
4
5

KV-2204UB **KV-2204UB**

[H·OSC, PIN·OUT
H·DRIVE, H·OUT] **E** **E**

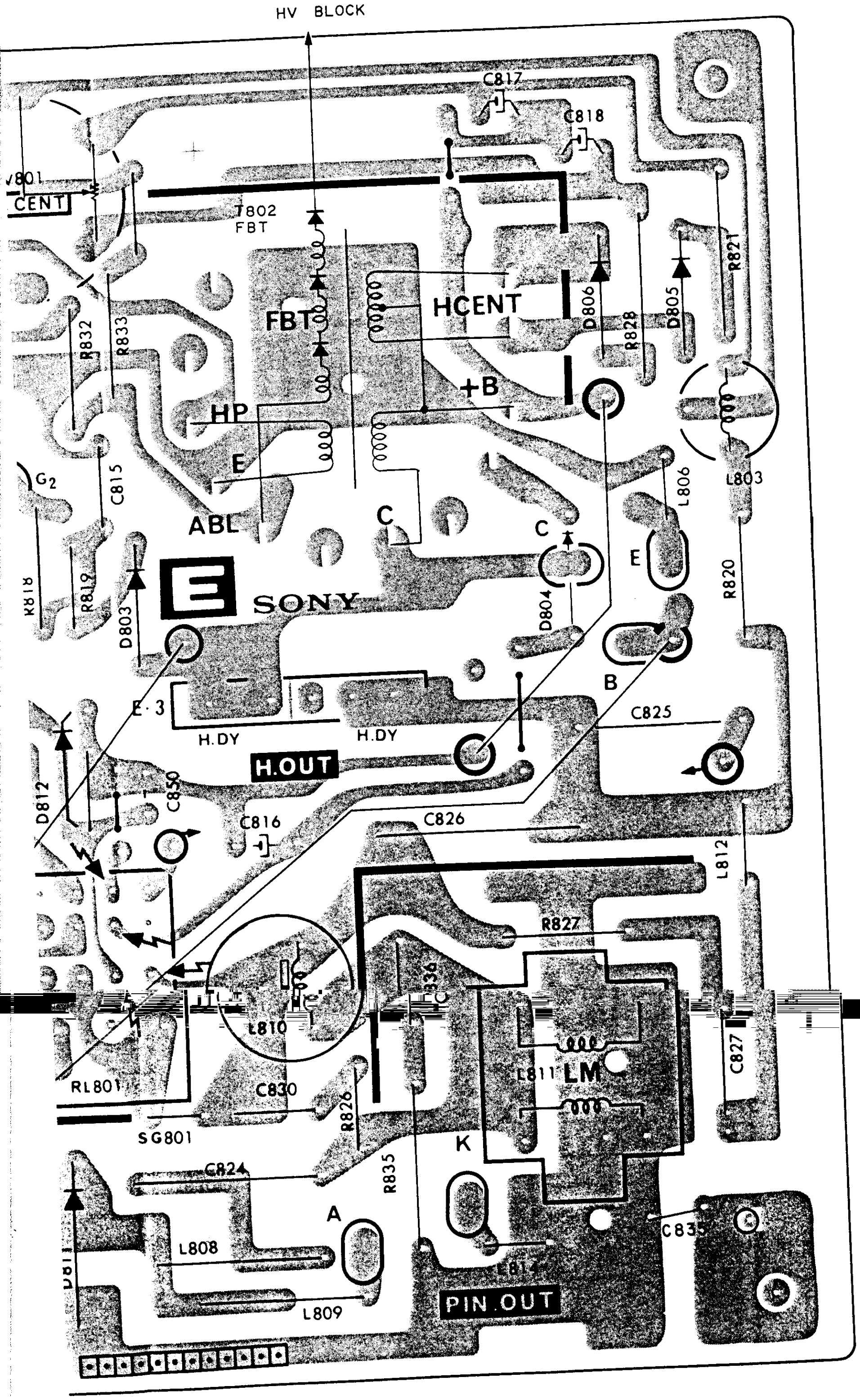
B	C	D	E

ADJ
RV801


HV BLOCK
C801
L801
C808
R807
R806
D801
R804
R805
D802
RV801
H.CENT
C817
C818
819
C829
H.FREQ
C805
C802
R834
C832
T802
FBT
C807
T801
R809
E·5
R832
R833
FBT
HCENT
D806
R828
D805
H.OSC
R810
C810
R808
C833
C831
R822
E·2
HP
+B
C809
B
C
E
Q801
R812
R813
R811
E·1
G2
C815
E
ABL
C
L806
C806
135V
L815
R818
R819
D803
E
SONY
D804
R814
H.DRIVE
R815
G
PIN
ABL
H.P
R816
C811
B
Q802
R813
C828
E·3
B
C825
C814
R817
R80
E
D812
C850
H.OUT
C812
SYNC
C816
C826
T803 HDT
R803
C804
Q805
B
C
E
R827
R802
R823
R830
R829
R831
R824
C836
L810

E **E**

D E F

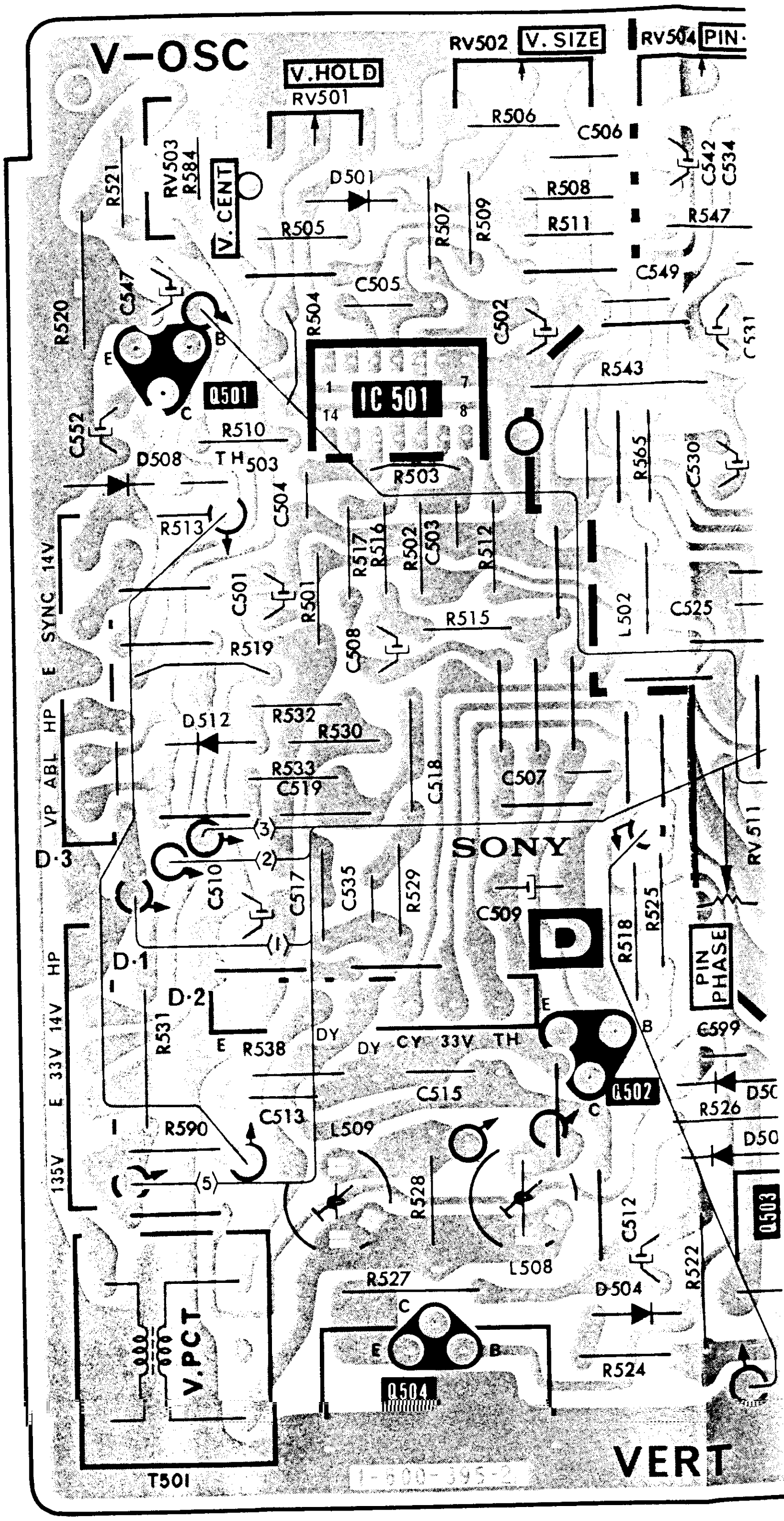

HV BLOCK
C817
C818
V801
CENT
T802
FBT
FBT
HCENT
D806
R828
D805
R821
R832
R833
+B
HP
E
G2
C815
L806
L803
ABL
C
C
E
E
SONY
R818
R819
D803
D804
R820
B
E·3
H.DY
H.DY
C825
H.OUT
D812
C850
C816
C826
L812
R827
C836
L810
L811
LM
C827
RL801
C830
R826
SG801
K
C824
R835
A
C835
L808
L814
PIN OUT
L809
D811

A B C D

1 2 3 4 5

– D Board –

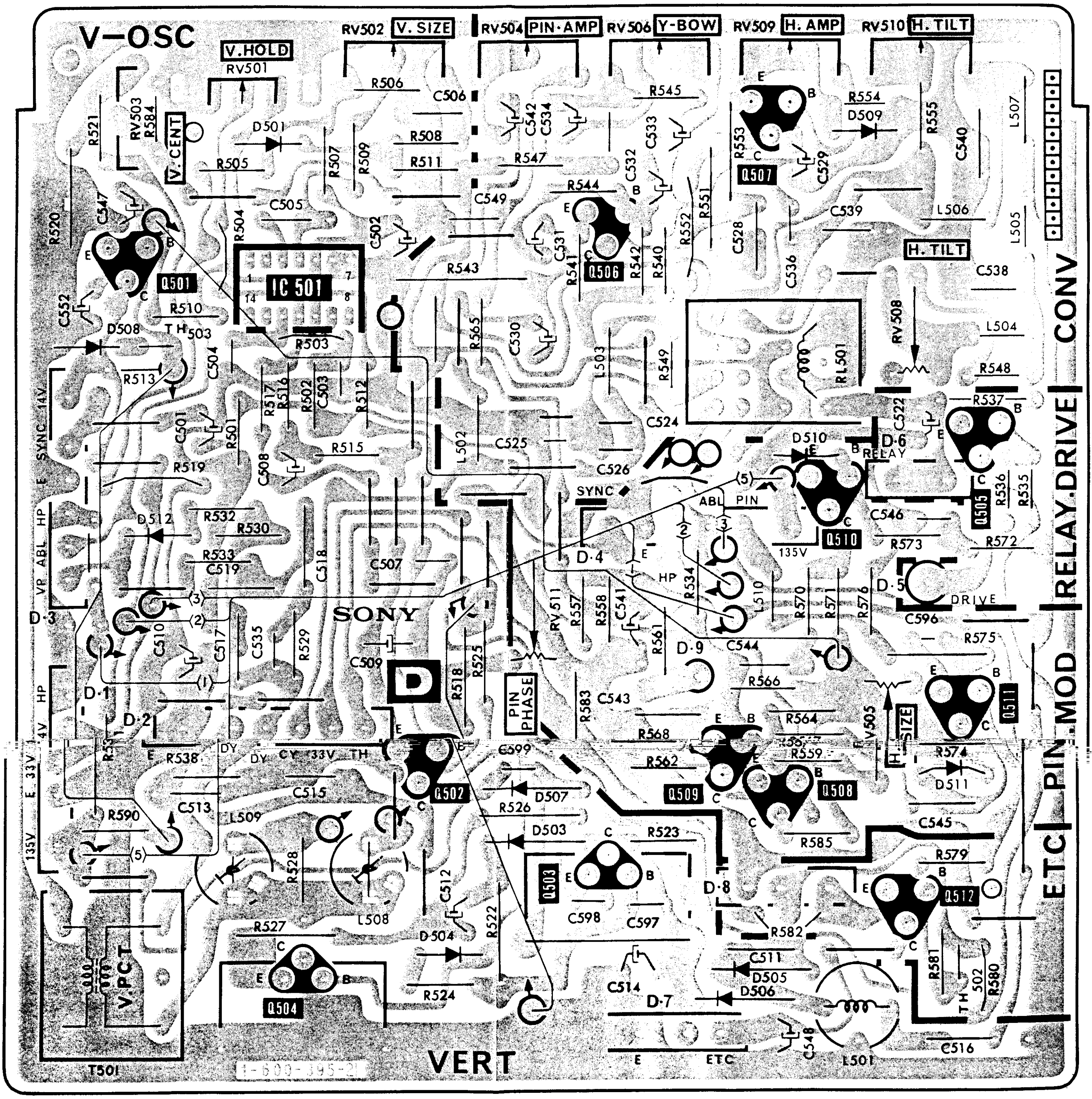
Q, IC	D	ADJ
		RV502
		RV504
		RV501
		RV506
507		RV503
	509	RV509
	501	RV510
506		
501		
IC501		
	508	
	510	
510		
	512	
		RV511
		RV505
511		
508		
502	511	
509		
	507	
	503	
503		
512		
	504	
504	505	
	506	
Q, IC	D	ADJ


V–OSC
V.HOLD
RV501
RV502
V. SIZE
RV504
PIN
RV503
R584
V. CENT
R521
D501
R506
C506
R508
R511
R547
C542
C534
R505
R507
R509
C505
C549
R520
C547
R504
C502
R543
Q501
IC 501
R510
C552
D508
TH503
R503
R565
C530
R513
C504
R517
R516
R502
C503
R512
14V
SYNC
C501
R501
L502
C525
R515
R519
C508
E
HP
D512
R532
R530
ABL
R533
C519
C518
C507
VP
SONY
D·3
C510
C517
C535
R529
C509
R518
R525
RV511
PIN PHASE
D·1
D·2
R531
E
R538
DY
CY
33V
TH
Q502
C599
33V
135V
R590
C513
L509
C515
R526
R528
C512
L508
R527
D504
R522
Q503
V.PCT
Q504
R524
T501
VERT
1-600-395-2

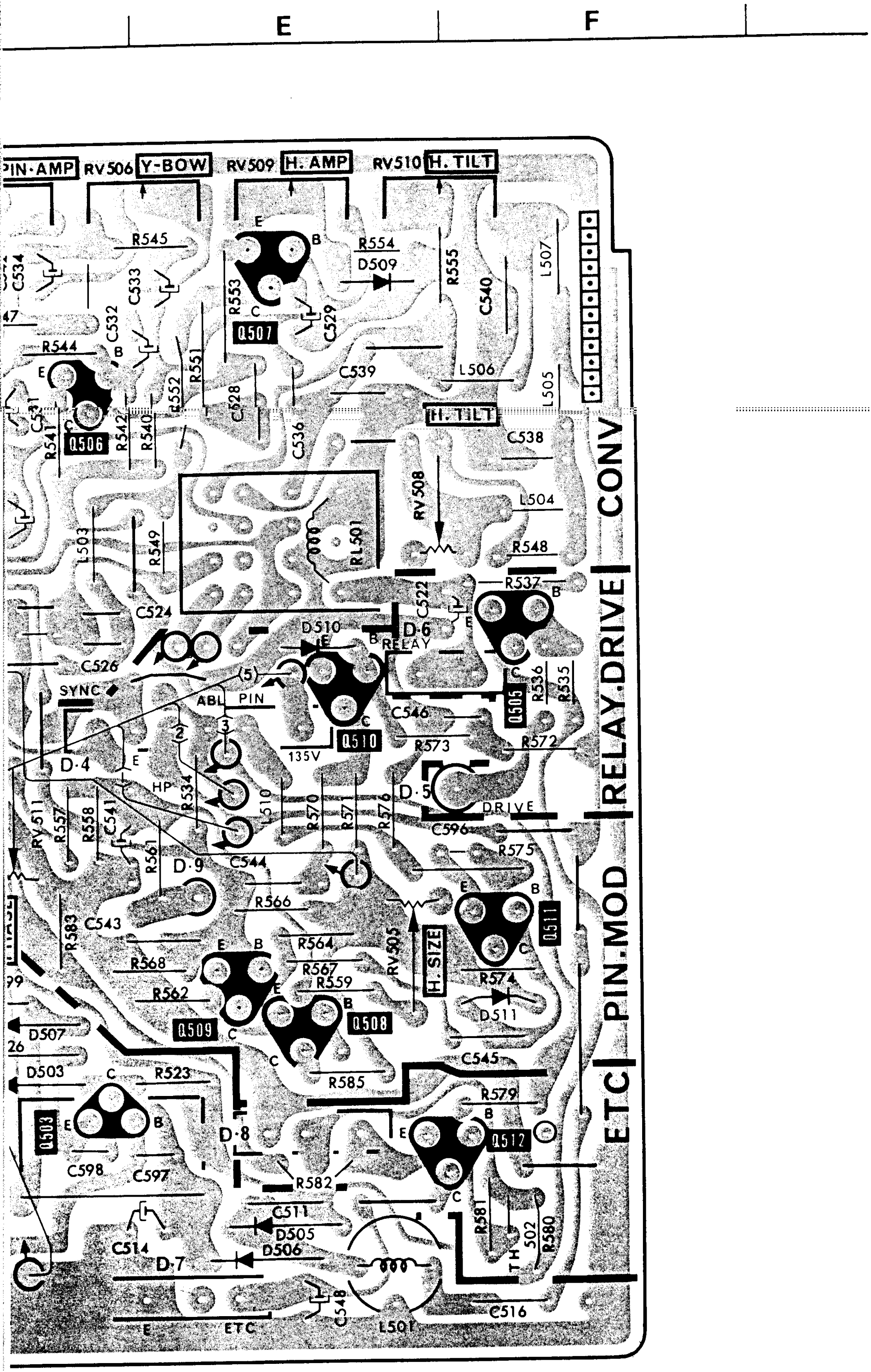
D **D**

VERT, ETC
PIN-MOD
RELAL·DRIVE CONV

C D E F


V–OSC
V.HOLD
RV501
RV502 V. SIZE
RV504 PIN·AMP
RV506 Y-BOW
RV509 H. AMP
RV510 H. TILT
V. CENT
RV503
IC 501
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508
Q509
Q510
Q511
Q512
H. TILT
RV508
RL501
RELAY
DRIVE
SYNC
ABL
PIN
HP
135V
D·1
D·2
D·3
D·4
D·5
D·6
D·7
D·8
D·9
SONY
D
PIN PHASE
RV511
RV505
H. SIZE
V.PCT
T501
L501
L508
L509
TH503
TH502
DY
CY
33V
TH
VERT
E
ETC
1-600-395-21
CONV
RELAY.DRIVE
PIN.MOD
ETC

D VERT, ETC
PIN-MOD
RELAL-DRIVE CONV

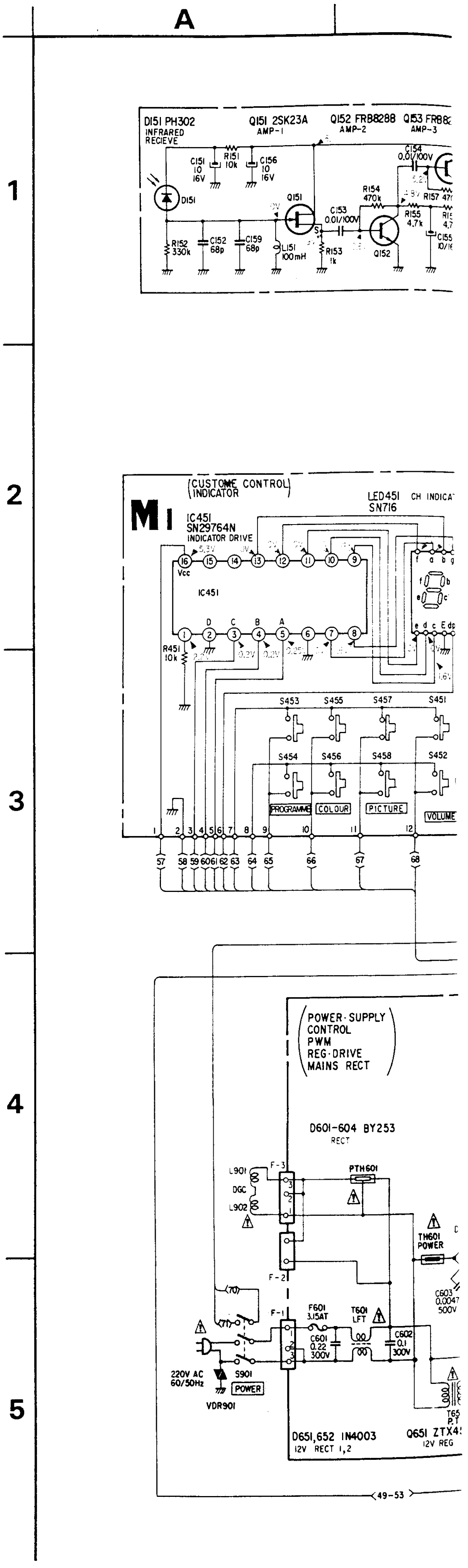

E
F
PIN·AMP
RV506 Y-BOW
RV509 H. AMP
RV510 H. TILT
R545
C534
C533
R553
Q507
R554
D509
R555
C540
L507
C529
C532
R544
Q506
C531
R541
R542
R540
C552
R551
C528
C536
C539
L506
L505
H. TILT
C538
RV508
L504
R548
L503
R549
RL501
R537
C522
C524
D510
D·6
RELAY
C526
SYNC
ABL
PIN
Q510
C546
Q505
R536
R535
R573
R572
135V
D·4
HP
R534
510
R570
R57
R576
D·5
DRIVE
C596
RV511
R557
R558
C541
R561
D·9
C544
R575
R566
RV505
H. SIZE
Q511
C543
R583
R568
R564
R567
R559
R562
Q509
Q508
R574
D511
D507
D503
R523
R585
C545
Q503
R579
D·8
Q512
C598
C597
R582
C511
D505
C514
D506
D·7
R581
TH 502
R580
C548
L501
C516
ETC
CONV
RELAY.DRIVE
PIN.MOD
ETC

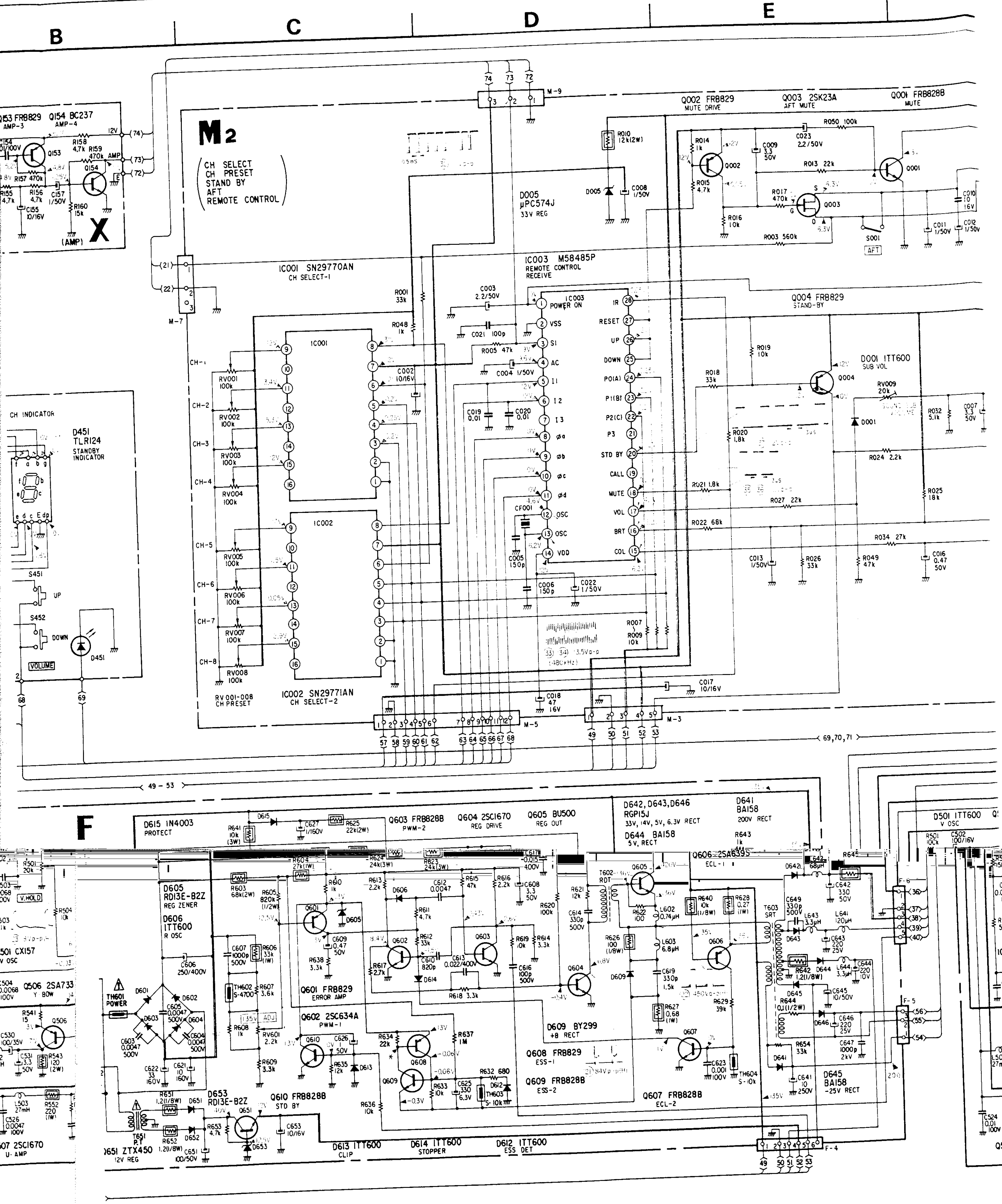
5-4. SCHEMATIC DIAGRAM

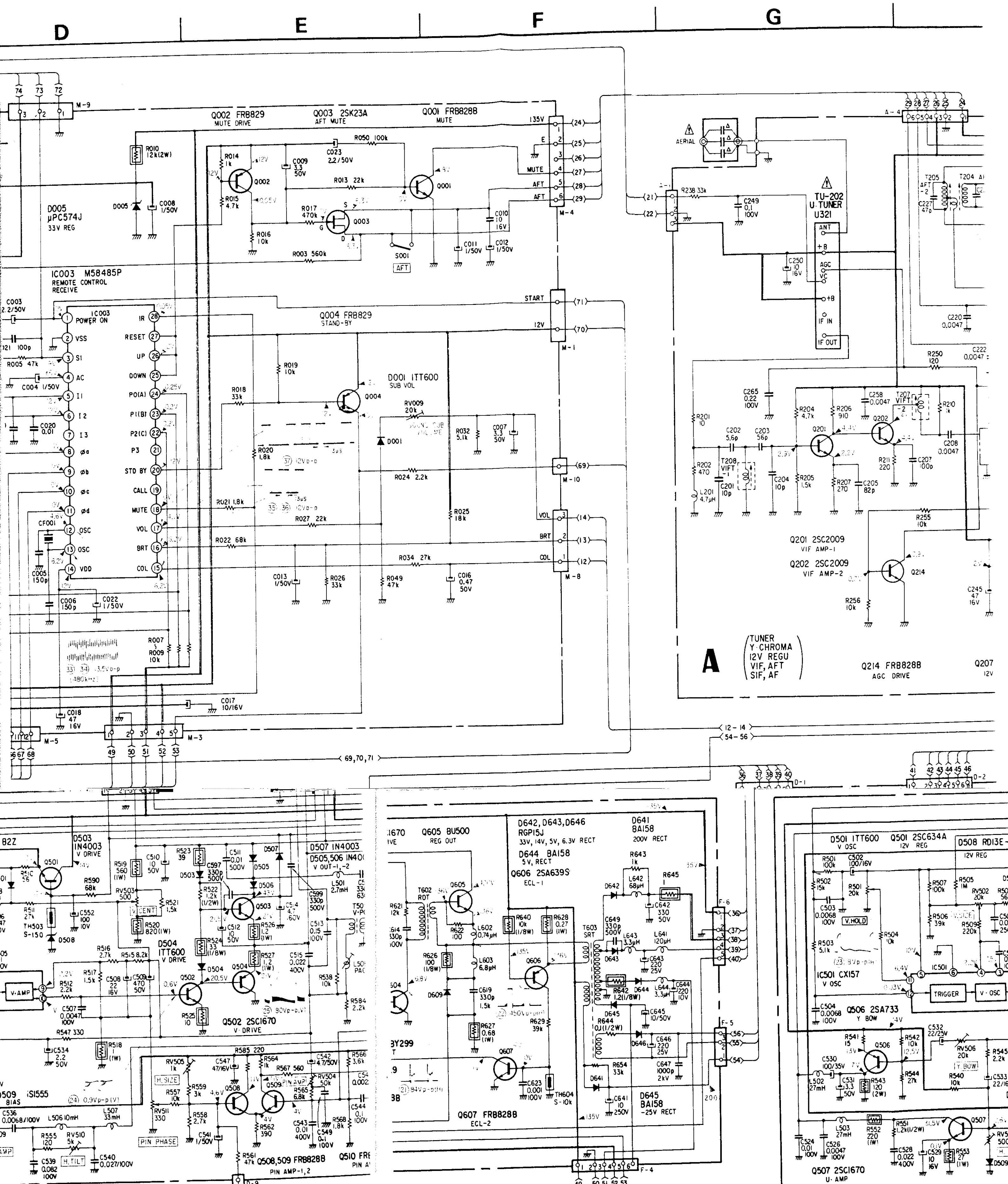
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

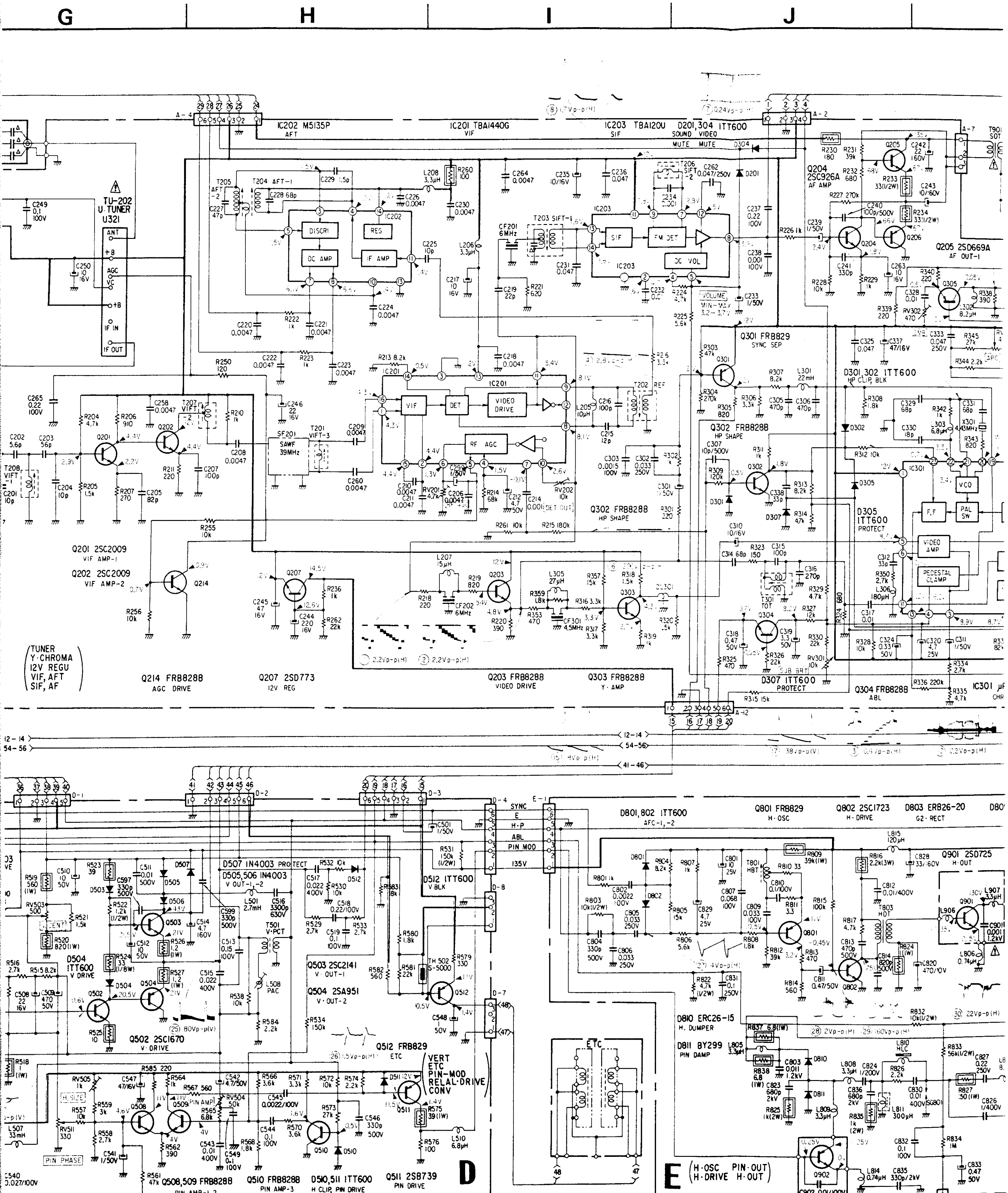
Note:

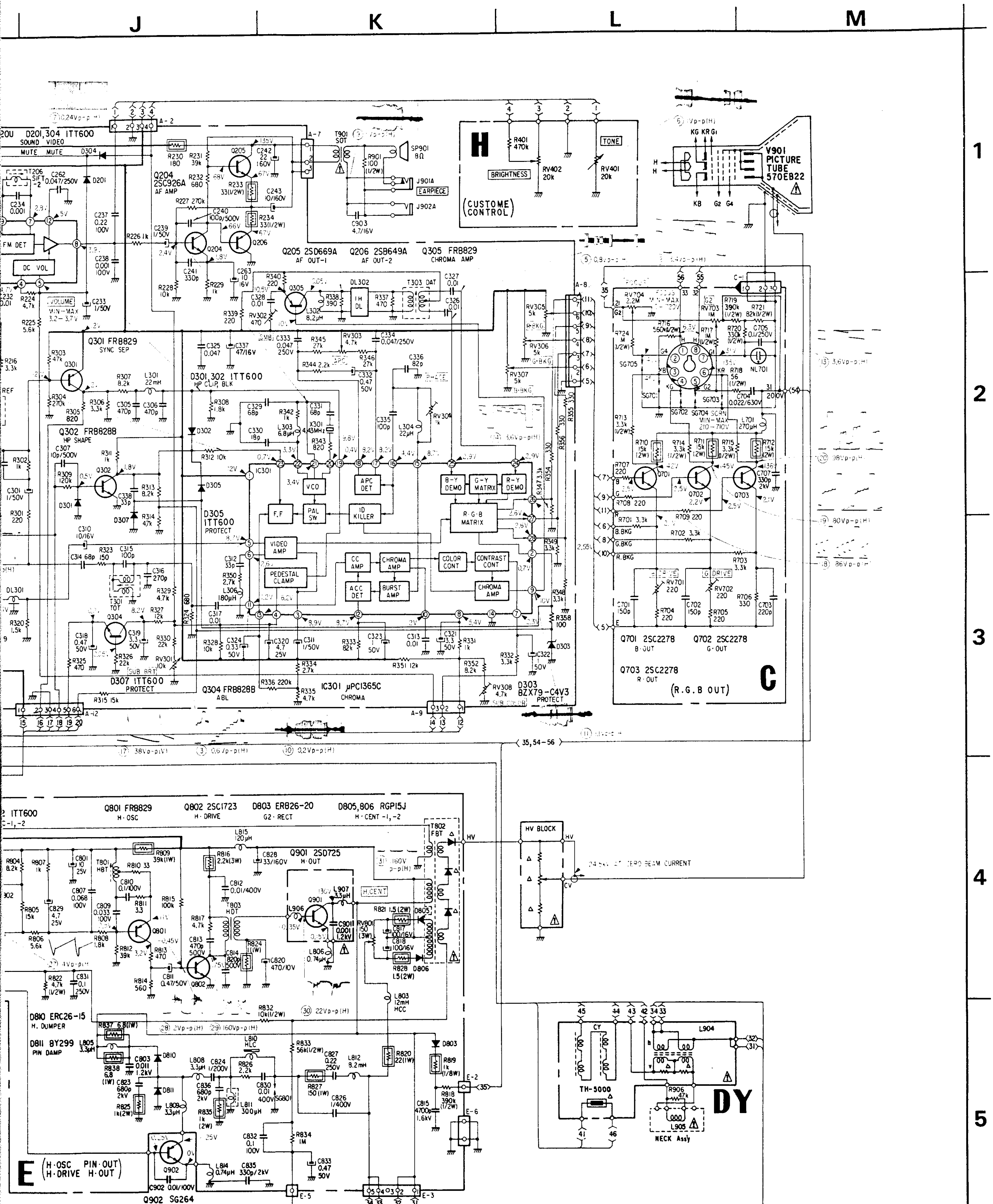
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭: panel designation.
- All adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ※ : selected to yield optimum performance.
- ⊘ : adjustable without removing cabinet.
- ▭: adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- Do not touch the base of Q608 with the VOM probe, as B+ voltage will not be supplied to the set.
- Voltages of Q512 are taken with D-7 removed and also TH502 short-circuited.


A
1
2
3
4
5
D151 PH302 INFRARED RECIEVE
Q151 2SK23A AMP-1
Q152 FRB8288 AMP-2
Q153 FRB8 AMP-3
R151 10k
C151 10 16V
C156 10 16V
R152 330k
C152 68p
C159 68p
L151 100mH
R153 1k
C153 0.01/100V
R154 470k
R155 4.7k
C154 0.01/100V
R157
C155
M1
CUSTOME CONTROL INDICATOR
IC451 SN29764N INDICATOR DRIVE
IC451
Vcc
R451 10k
LED451 SN716 CH INDICAT
S453
S455
S457
S451
S454
S456
S458
S452
PROGRAMME
COLOUR
PICTURE
VOLUME
POWER-SUPPLY CONTROL PWM REG-DRIVE MAINS RECT
D601-604 BY253 RECT
L901
DGC
L902
PTH601
TH601 POWER
F601 3.15AT
T601 LFT
C601 0.22 300V
C602 0.1 300V
C603 0.0047 500V
220V AC 60/50Hz
S901 POWER
VDR901
D651,652 1N4003 12V RECT 1,2
Q651 ZTX4 12V REG
49-53

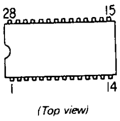

B
C
D
E
F
M2
CH SELECT
CH PRESET
STAND BY
AFT
REMOTE CONTROL
X
Q153 FR8829 AMP-3
Q154 BC237 AMP-4
(AMP)
M-7
M-9
M-5
M-3
M-4
F-4
F-5
F-6
IC001 SN29770AN CH SELECT-1
IC002 SN29771AN CH SELECT-2
IC003 M58485P REMOTE CONTROL RECEIVE
D005 µPC574J 33V REG
Q002 FR8829 MUTE DRIVE
Q003 2SK23A AFT MUTE
Q001 FR8828B MUTE
Q004 FR8829 STAND-BY
D001 1TT600 SUB VOL
S001 AFT
CH INDICATOR
D451 TLR124 STANDBY INDICATOR
S451 UP
S452 DOWN
VOLUME
RV001-008 CH PRESET
POWER ON
VSS
S1
AC
I1
I2
I3
øa
øb
øc
ød
OSC
VDD
IR
RESET
UP
DOWN
P0(A)
P1(B)
P2(C)
P3
STD BY
CALL
MUTE
VOL
BRT
COL
3.5Vp-p (480kHz)
49 - 53
69,70,71
D615 1N4003 PROTECT
Q603 FR8828B PWM-2
Q604 2SC1670 REG DRIVE
Q605 BU500 REG OUT
D642,D643,D646 RGP15J 33V, 14V, 5V, 6.3V RECT
D641 BA158 200V RECT
D644 BA158 5V, RECT
Q606 2SA639S ECL-1
D501 1TT600 V OSC
D605 RD13E-B2Z REG ZENER
D606 1TT600 R OSC
TH601 POWER
Q601 FR8829 ERROR AMP
Q602 2SC634A PWM-1
Q610 FR8828B STD BY
Q608 FR8829 ESS-1
Q609 FR8828B ESS-2
D609 BY299 +B RECT
Q607 FR8828B ECL-2
D645 BA158 -25V RECT
D653 RD13E-B2Z
Q651 ZTX450 12V REG
T651 P.T
T602 RDT
T603 SRT
D613 1TT600 CLIP
D614 1TT600 STOPPER
D612 1TT600 ESS DET
V.HOLD
501 CX157 V OSC
Q506 2SA733 Y BOW
07 2SC1670 U-AMP


D
E
F
G
Q002 FRB829 MUTE DRIVE
Q003 2SK23A AFT MUTE
Q001 FRB828B MUTE
R010 12k(2W)
D005 µPC574J 33V REG
R014 1k
R015 4.7k
C009 3.3 50V
C023 2.2/50V
R050 100k
R013 22k
R017 470k
R016 10k
R003 560k
C010 10 16V
C011 1/50V
C012 1/50V
S001 AFT
C008 1/50V
135V
E
MUTE
AFT
M-4
M-9
IC003 M58485P REMOTE CONTROL RECEIVE
IC003 POWER ON
VSS
S1
AC
I1
I2
I3
φa
φb
φc
φd
OSC
VDD
IR
RESET
UP
DOWN
PO(A)
P1(B)
P2(C)
P3
STD BY
CALL
MUTE
VOL
BRT
COL
C003 2.2/50V
R005 47k
C004 1/50V
C020 0.01
CF001
C005 150p
C006 150p
C022 1/50V
C018 47 16V
C017 10/16V
R007
R009 10k
Q004 FRB829 STAND-BY
D001 ITT600 SUB VOL
RV009 20k
R019 10k
R018 33k
R020 1.8k
R021 1.8k
R022 68k
R024 2.2k
R025 18k
R027 22k
R032 5.1k
C007 3.3 50V
R034 27k
C013 1/50V
R026 33k
R049 47k
C016 0.47 50V
START
12V
M-1
M-10
M-8
M-5
M-3
VOL
BRT
COL
69,70,71
12-14
54-56
AERIAL
R238 33k
C249 0.1 100V
TU-202 U·TUNER U321
ANT
+B
AGC
VC
IF IN
IF OUT
C250 10 16V
C220 0.0047
R250 120
C222 0.0047
T205 AFT-2
T204
C227 47p
C265 0.22 100V
R201 10
R202 470
L201 4.7µH
C202 5.6p
C203 56p
T208 VIFT-1
C201 10p
C204 10p
R204 4.7k
R206 910
R205 1.5k
R207 270
C205 82p
C258 0.0047
T207 VIFT-2
R210 1k
R211 220
C207 100p
C208 0.0047
Q201
Q202
R255 10k
Q201 2SC2009 VIF AMP-1
Q202 2SC2009 VIF AMP-2
Q214
R256 10k
C245 47 16V
A
TUNER
Y CHROMA
12V REGU
VIF, AFT
SIF, AF
Q214 FRB828B AGC DRIVE
Q207
D-1
D-2
Q501
D503 1N4003 V DRIVE
R519 560 (1W)
R590 68k
C510 10 50V
R523 39
C511 0.01 500V
D507
D505
D507 1N4003
D505,506 1N400 V OUT-1,-2
C597 330p 500V
R522 1.2k (1/2W)
D506
RV503 500
V.CENT
R521 1.5k
R520 820(1W)
C552 100 10V
TH503 S-150
D508
L501 2.7mH
C599 330p 500V
C513 0.15 100V
C514 4.7 160V
C512 10 50V
R526 1.2 (1W)
R524 33 (1/8W)
D504 ITT600 V DRIVE
R516 2.7k
R515 8.2k
R517 1.5k
C508 22 16V
C509 470 50V
R527 1.2 (1W)
C515 0.022 400V
R538 10k
R584 2.2k
V-AMP
R512 2.2k
C507 0.0047 100V
Q502
Q503
Q504
R525 10
Q502 2SC1670 V-DRIVE
R547 330
C534 2.2 50V
R518 1 (1W)
RV505 1k
H.SIZE
R585 220
C547 47/16V
R564 1k
R567 560
C542 4.7/50V
R566 3.6k
RV504 50k
PIN AMP
R565 6.8k
R559 3k
R557 10k
Q508
Q509
RV511 330
R558 2.7k
R562 390
C543 0.01 400V
C549 0.1 100V
R568 1.8k
C544 0.1 100V
PIN PHASE
C541 1/50V
R561 47k
Q508,509 FRB828B PIN AMP-1,2
Q510
D509 IS1555 BIAS
C536 0.0068/100V
L506 10mH
L507 33mH
R555 120
RV510 5k
H.TILT
C539 0.082 100V
C540 0.027/100V
D-9
Q605 BU500 REG OUT
T602 ROT
R621 12k
Q605
R622 100
L602 0.74µH
R626 100 (1/8W)
L603 6.8µH
D609
C619 330p 1.5k
R627 0.68 (1W)
Q607
C623 0.001 100V
TH604 S-10k
Q607 FRB828B ECL-2
D642,D643,D646 RGP15J 33V, 14V, 5V, 6.3V RECT
D641 BA158 200V RECT
D644 BA158 5V, RECT
Q606 2SA639S ECL-1
R640 10k (1/8W)
R628 0.27 (1W)
Q606
R629 39k
R643 1k
L642 68µH
R645 1
C642 330 50V
T603 SRT
C649 330p 500V
L643 3.3µH
L641 120µH
C643 220 25V
R642 1.2(1/8W)
D644
L644 3.3µH
C644 220 10V
D645
R644 0J(1/2W)
C645 10/50V
C646 220 25V
R654 33k
C647 1000p 2kV
D641
C641 10 250V
D645 BA158 -25V RECT
135V
F-6
F-5
F-4
D501 ITT600 V OSC
Q501 2SC634A 12V REG
D508 RD13E
12V REG
R501 100k
C502 100/16V
R502 15k
R501 20k
R507 100k
R505 1M
RV502 20k
C503 0.0068 100V
V.HOLD
R506 39k
R509 220k
R504 10k
R503 5.1k
IC501 CX157 V OSC
IC501
TRIGGER
V-OSC
C504 0.0068 100V
Q506 2SA733 Y BOW
C532 22/25V
R541 15
R542 10k
Q506
RV506 20k
Y BOW
C530 100/35V
L502 27mH
C531 3.3 50V
R543 120 (2W)
R544 27k
R540 10k
L503 27mH
R552 220 (1W)
R551 1.2k(1/2W)
Q507
C524 0.01 100V
C526 0.0047 100V
C528 0.022 400V
C529 10 16V
R553 27 (1W)
Q507 2SC1670 U·AMP

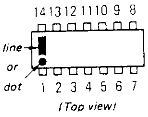

G
H
I
J
A-4
IC202 M5135P AFT
IC201 TBA1440G VIF
IC203 TBA120U SIF
D201,304 ITT600 SOUND VIDEO MUTE MUTE
A-2
TU-202 U-TUNER U321
ANT
+B
AGC
VC
IF IN
IF OUT
T205 AFT-2
T204 AFT-1
DISCRI
REG
DC AMP
IF AMP
T206 SIFT-2
T203 SIFT-1
CF201 6MHz
SIF
FM DET
DC VOL
VOLUME MIN-MAX 3.2-3.7V
VIF
DET
VIDEO DRIVE
RF AGC
SF201 SAWF 39MHz
T201 VIFT-3
T207 VIFT-2
T208 VIFT-1
T202 REF
Q201 2SC2009 VIF AMP-1
Q202 2SC2009 VIF AMP-2
Q214 FRB8288 AGC DRIVE
Q207 2SD773 12V REG
Q203 FRB8288 VIDEO DRIVE
Q303 FRB8288 Y-AMP
Q204 2SC926A AF AMP
Q205 2SD669A AF OUT-1
Q301 FRB829 SYNC SEP
Q302 FRB8288 HP SHAPE
D301,302 ITT600 HP CLIP, BLK
D305 ITT600 PROTECT
D307 ITT600 PROTECT
Q304 FRB8288 ABL
IC301
VCO
PAL SW
F.F
VIDEO AMP
PEDESTAL CLAMP
T301 TOT
SUB BRT
TUNER Y-CHROMA 12V REGU VIF, AFT SIF, AF
A-12
12-14
54-56
41-46
D-1
D-2
D-3
D-4
E-1
SYNC
E
H-P
ABL
PIN MOD
135V
D-8
D-7
D507 1N4003 PROTECT
D505,506 1N4003 V OUT-1,-2
D512 ITT600 V BLK
T501 V-PCT
L508 PAC
TH 502 S-5000
Q503 2SC2141 V-OUT-1
Q504 2SA951 V-OUT-2
D504 ITT600 V DRIVE
Q502 2SC1670 V-DRIVE
Q512 FRB829 ETC
VERT ETC PIN-MOD RELAL-DRIVE CONV
Q508,509 FRB8288 PIN AMP-1,2
Q510 FRB8288 PIN AMP-3
D510,511 ITT600 H CLIP, PIN DRIVE
Q511 2SB739 PIN DRIVE
H.SIZE
PIN PHASE
D-9
ETC
D
D801,802 ITT600 AFC-1,-2
Q801 FRB829 H-OSC
Q802 2SC1723 H-DRIVE
D803 ERB26-20 G2-RECT
Q901 2SD725 H-OUT
T801 HBT
T803 HDT
D810 ERC26-15 H. DUMPER
D811 BY299 PIN DAMP
L810 HLC
Q902 SG264 PIN OUT
E
H-OSC PIN-OUT H-DRIVE H-OUT
E-5
30


J
K
L
M
1
2
3
4
5
H
BRIGHTNESS
RV402 20k
TONE
RV401 20k
R401 470k
(CUSTOME CONTROL)
V901 PICTURE TUBE 570EB22
KG KR G1
KB G2 G4
D201,304 ITT600 SOUND VIDEO
MUTE MUTE
FM DET
DC VOL
VOLUME MIN-MAX 3.2-3.7V
Q204 2SC926A AF AMP
Q205 2SD669A AF OUT-1
Q206 2SB649A AF OUT-2
Q305 FRB829 CHROMA AMP
T901 SOT
SP901 8Ω
J901A EARPIECE
J902A
C903 4.7/16V
Q301 FRB829 SYNC SEP
Q302 FRB828B HP SHAPE
D301,302 ITT600 HP CLIP, BLK
D305 ITT600 PROTECT
D307 ITT600 PROTECT
Q304 FRB828B ABL
IC301 μPC1365C CHROMA
D303 BZX79-C4V3 PROTECT
DL302 1H DL
T303 DAT
X301 4.43MHz
VCO
APC DET
F.F
PAL SW
ID KILLER
B-Y DEMO
G-Y MATRIX
R-Y DEMO
R-G-B MATRIX
VIDEO AMP
PEDESTAL CLAMP
CC AMP
CHROMA AMP
ACC DET
BURST AMP
COLOR CONT
CONTRAST CONT
CHROMA AMP
SUB BRT
SUB COLOR
T301 TOT
DL301
R-BKG
B-BKG
G-BKG
FOCUS
SCRN MIN-MAX 210-710V
G DRIVE
B DRIVE
Q701 2SC2278 B-OUT
Q702 2SC2278 G-OUT
Q703 2SC2278 R-OUT
C
(R.G.B OUT)
35,54-56
ITT600
Q801 FRB829 H-OSC
Q802 2SC1723 H-DRIVE
D803 ERB26-20 G2-RECT
D805,806 RGP15J H-CENT-1,-2
Q901 2SD725 H-OUT
T801 HBT
T803 HDT
T802 FBT
H.CENT
HV
HV BLOCK
24.5kV AT ZERO BEAM CURRENT
CV
D810 ERC26-15 H. DUMPER
D811 BY299 PIN DAMP
L810 HLC
L803 12mH HCC
Q902 SG264 PIN OUT
E
(H-OSC PIN-OUT)
(H-DRIVE H-OUT)
CY
L904
TH-5000
R906 47k
L905
NECK Assy
DY

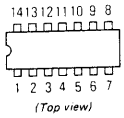
μPC1365C


28
15
1
14
(Top view)

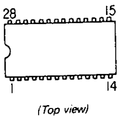
CX157


14 13 12 11 10 9 8
line
or
dot
1 2 3 4 5 6 7
(Top view)

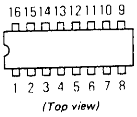
M5135P


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

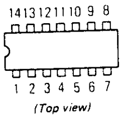
M58485P


28
15
1
14
(Top view)

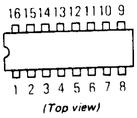
SN29764N
SN29770AN
SN29771AN


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

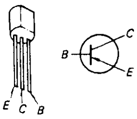
TBA120U


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

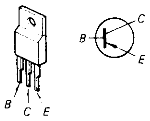
TBA1440G


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

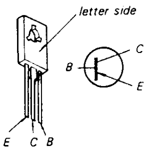
2SA639S
2SA733



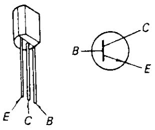
2SA951



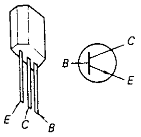
2SB649A


letter side
B
C
E
E C B

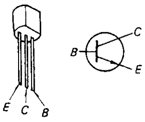
2SB739



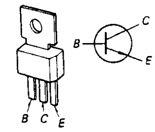
2SC634A
2SC926A



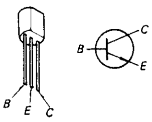
2SC1670



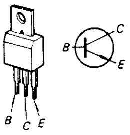
2SC1723



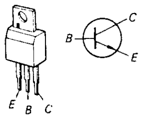
2SC2009



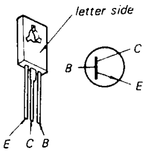
2SC2141



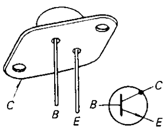
2SC2278



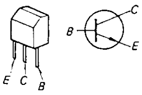
2SD669A


letter side
B
C
E
E C B

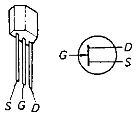
2SD725



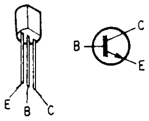
2SD773



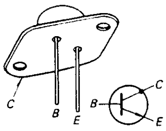
2SK23A



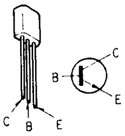
BC237



BU500



FRB828B



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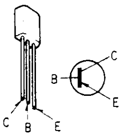
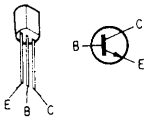
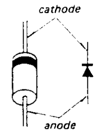


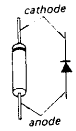
ZTX450



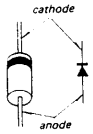
1N4003


cathode
anode

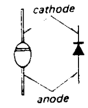
1S1555
1TT600
BZX79-C4V3
RD13E-B2Z


cathode
anode

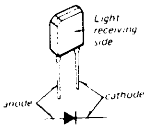
BA158
BY253
BY299
RGP15J


cathode
anode

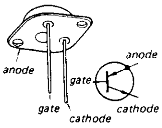
ERB26-20
ERC26-15


cathode
anode

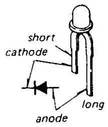
PH302


Light receiving side
anode
cathode

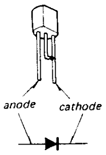
SG264


anode
gate
cathode
anode
gate
cathode

TLR124


short
cathode
long
anode

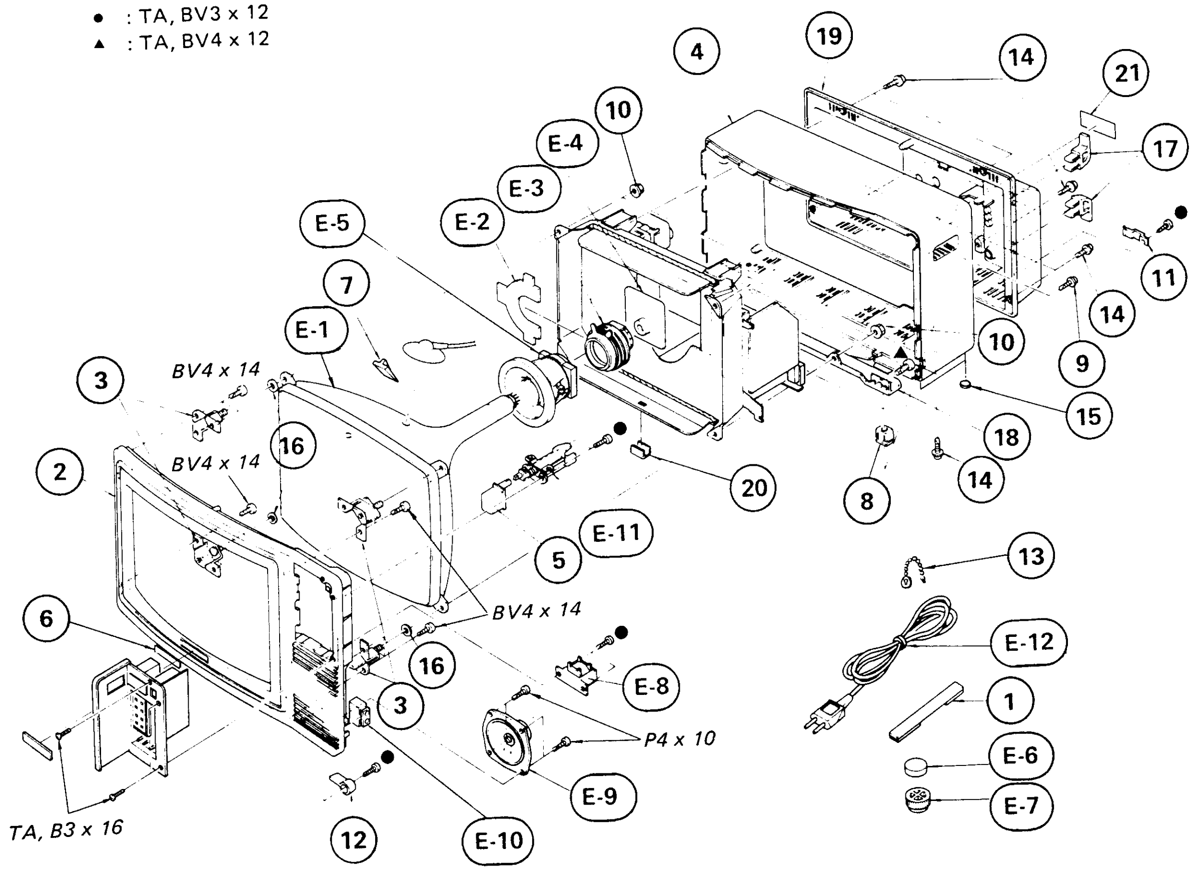
μPC574J


anode
cathode

SECTION 6
EXPLODED VIEWS

(1) CABINET

Note:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12
- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- As to the part numbered with E–, refer to the electrical parts list.

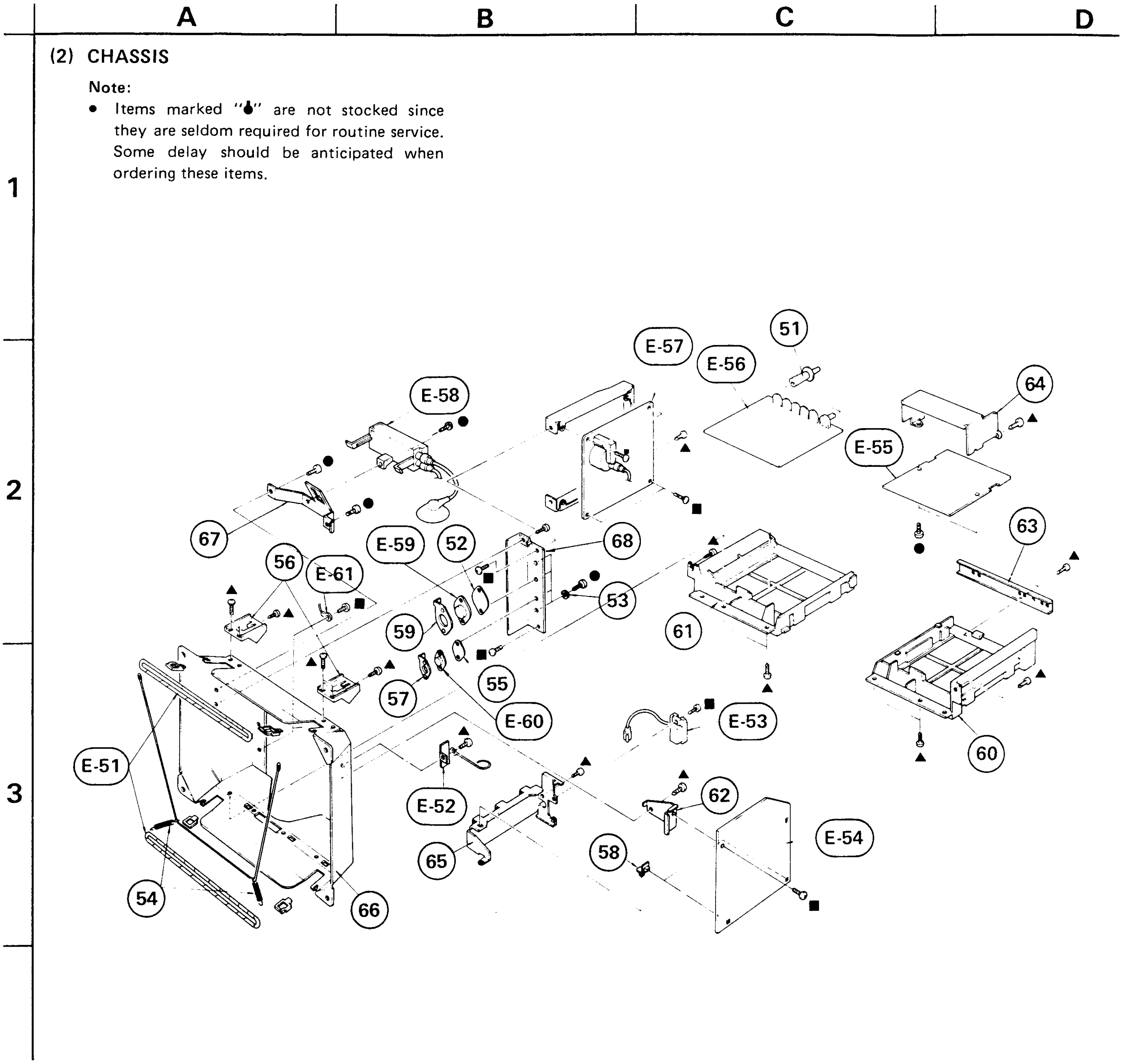

A
B
C
D
1
2
3
4
19
14
21
10
E-4
E-3
17
E-5
E-2
11
7
E-1
14
10
9
3
BV4 x 14
15
18
2
BV4 x 14
16
20
14
8
E-11
5
13
BV4 x 14
6
16
E-12
E-8
3
1
P4 x 10
E-6
E-9
E-7
TA, B3 x 16
12
E-10

No.	Part No.	Description	Remark
1	X-4309-608-0	Convergence Permalloy Ass'y	
2	X-4323-909-0	Sub Mask Ass'y	
3	♠ X-4323-911-0	Picture Tube Bracket Ass'y	
4	X-4323-914-0	Cabinet Ass'y	
5	X-4336-401-1	Power Button Ass'y	
6	3-701-912-00	Emblem, SONY	
7	3-703-003-00	DY Spacer	
8	3-703-036-00	Grommet	
9	4-304-494-11	TA, P4 x 16	
10	4-306-034-00	Flange Nut	
11	4-307-238-00	Clamp, ac cord	
12	4-307-250-00	Stopper, ac cord	
13	4-308-870-00	Clip, lead wire	
14	4-309-749-00	Tapping Screw	
15	4-310-333-00	Foot,Cushion	
16	♠ 4-311-141-00	Washer, puctures tube	
17	4-316-003-00	Holder, cord	
18	♠ 4-323-918-00	Reinforcement, mask	
19	4-323-923-00	Cover, rear	
20	♠ 4-323-942-00	Hook	
21	♠ 4-337-101-00	Label, model number	

(2) CHASSIS

Note:

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

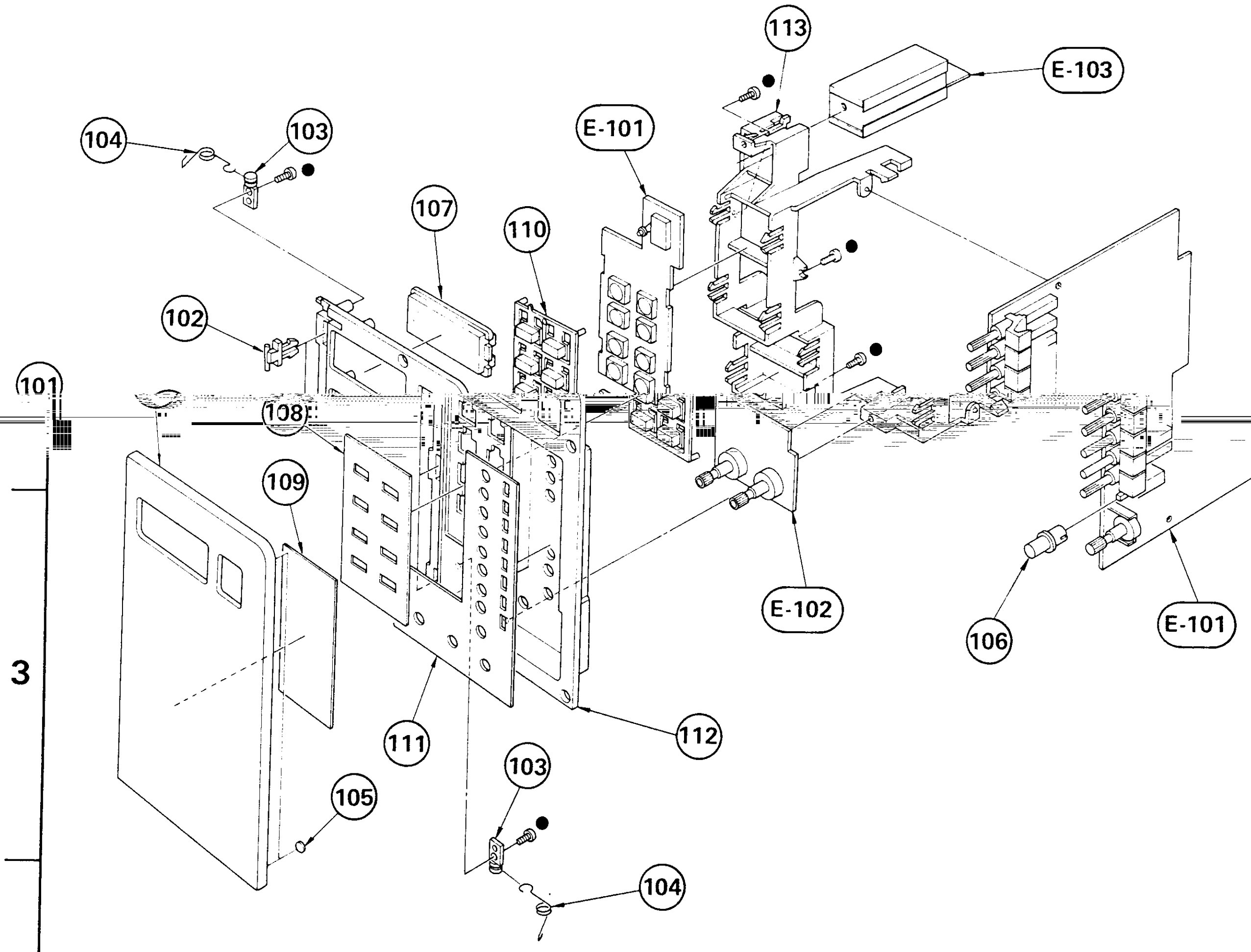

D
A
B
C
D
1
2
3
E-57
E-56
51
64
E-58
E-55
67
56
E-61
E-59
52
68
53
63
61
59
57
55
60
E-60
E-53
E-51
E-52
62
65
58
E-54
54
66

No.		*Part No.*	*Description*	*Remark*
51		X-4314-615-0	Knob Ass'y, V. HOLD	
52		3-701-353-00	Spacer, mica	
53		3-701-453-00	Bushing, insulator	
54		4-303-774-XX	Spring	
55		4-303-844-00	Spacer, mica	
56	♦	4-309-643-11	Bracket, cabinet	
57	♦	4-309-762-00	Retainer, transistor	
58	♦	4-313-732-00	Clip, hinge; circuit board	
59	♦	4-314-938-01	Retainer, transistor	
60	♦	4-317-720-00	Bracket, F board	
61	♦	4-317-721-00	Bracket, D board	
62	♦	4-317-754-00	Bracket, A board	
63	♦	4-318-215-00	Reinforcement	
64	♦	4-318-282-00	Holder, F board	
65	♦	4-318-283-00	Guide, A board	
66	♦	4-323-920-00	Shield, picture tube	
67	♦	4-336-407-00	Bracket, HVR case	
68	♦	4-336-413-00	Heat Sink (E)	

(3) CONTROL SECTION

Note:

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.


113
E-103
104
103
E-101
107
110
102
101
108
109
E-102
106
E-101
111
112
103
105
104

No.	*Part No.*	*Description*	*Remark*
101	X-4324-003-1	Lid Ass'y	
102	3-703-035-11	Shaft, lid	
103	4-310-303-00	Hook, spring	
104	4-314-336-00	Spring	
105	4-314-871-00	Cushion	
106	4-325-610-01	Knob, AFT	
107	4-336-406-00	Window, channel indication	
108	4-337-102-00	Label (A), control panel	
109	4-337-103-00	Label, preset explanation	
110	4-337-104-00	Button, UP/DOWN	
111	4-337-105-00	Label (B), control panel	
112	4-337-106-00	Panel, control	
113	♦ 4-337-107-00	Bracket, circuit board	

SECTION 7
ELECTRICAL PARTS LIST

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- ⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- ※ : selected to yield optimum performance.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The components identified by ⧗ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

CAPACITORS

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF, elect : electrolytic

RESISTORS

- All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 69 for their part numbers.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ

COILS

- All coils are microinductors unless otherwise noted.

A BOARD

♠A-1295-330-A A Board, complete E-54

CAPACITORS

Ref. No.	*Part No.*	*Description*			*Remark*
C200	1-161-328-00	0.0047			
C201	1-161-259-00	10p			
C202	1-161-290-00	5.6p			
C203	1-161-268-00	56p			
C204	1-161-259-00	10p			
C205	1-161-270-00	82p			
C207	1-161-271-00	100p			
C208-211	1-161-328-00	0.0047			
C212	1-123-355-00	4.7	50V	elect	
C214	1-161-323-00	0.001			
C215	1-161-280-00	12p			
C216	1-102-529-00	100p			
C217	1-123-316-00	10	16V	elect	
C218	1-161-328-00	0.0047			
C219	1-161-263-00	22p			
C220-224	1-161-328-00	0.0047			
C225	1-161-259-00	10p			
C226	1-161-328-00	0.0047			
C227	1-102-852-00	47p			
C228	1-102-525-00	68p			
C229	1-161-249-00	1.5p			
C230	1-161-328-00	0.0047			
C231	1-101-006-00	0.047			
C232	1-161-051-00	0.01			
C233	1-123-352-00	1	50V	elect	
C234	1-103-725-00	0.001			
C235	1-123-316-00	10	16V	elect	
C236	1-101-006-00	0.047			
C237	1-108-393-00	0.022	100V	polyethylene	
C238	1-108-365-00	0.001	100V	mylar	
C239	1-123-352-00	1	50V	elect	
C240	1-101-810-00	100p	500V		
C241	1-161-317-00	330p			
C242	1-123-253-00	22	160V	elect	
C243	1-121-999-00	10	160V	elect	
C244	1-123-321-00	220	16V	elect	
C245	1-123-319-00	47	16V	elect	
C246	1-123-317-00	22	16V	elect	
C249	1-108-389-00	0.1	100V	polyethylene	
C250	1-123-316-00	10	16V	elect	
C258	1-161-328-00	0.0047			
C260	1-161-328-00	0.0047			
C262	1-108-385-00	0.047	250V	polyethylene	
C263	1-123-316-00	10	16V	elect	
C264	1-161-328-00	0.0047			
C265	1-108-393-00	0.22	100V	polyethylene	
C299	1-123-352-00	1	50V	elect	
C301	1-123-352-00	1	50V	elect	
C302	1-130-247-00	0.033	250V	polyethylene	
C303	1-108-367-00	0.0015	100V	mylar	
C305,306	1-161-319-00	470p			
C307	1-101-804-00	10p	500V		
C310	1-123-316-00	10	16V	elect	
C311	1-123-352-00	1	50V	elect	
C312	1-161-265-00	33p			
C313	1-161-051-00	0.01			
C314	1-161-269-00	68p			
C315	1-161-271-00	100p			
C316	1-161-316-00	270p			
C317	1-161-051-00	0.01			
C318	1-123-351-00	0.47	50V	elect	
C319	1-123-354-00	3.3	50V	elect	
C320	1-123-328-00	4.7	25V	elect	
C321	1-123-354-00	3.3	500V	elect	
C322,323	1-123-352-00	1	50V	elect	
C324	1-123-286-00	0.33	50V	elect	
C325	1-101-006-00	0.047			
C326–328	1-161-051-00	0.01			
C329	1-161-269-00	68p			
C330	1-161-262-00	18p			
C331	1-102-525-00	68p			
C332	1-123-351-00	0.47	50V	elect	
C333,334	1-108-385-00	0.047	250V	polyethylene	
C335	1-161-271-00	100p			
C336	1-161-270-00	82p			

- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	*Part No.*	*Description*	*Remark*
C337	1-123-319-00	47 16V elect	
C338	1-161-265-00	33p	
CF201	1-527-262-00	Ceramic Filter	

DIODES

Ref. No.	*Part No.*	*Description*	*Remark*
⇒ D201	8-719-815-55	1S1555	
⇒ D301, 302	8-719-815-55	1S1555	
⇒ D303	8-719-143-07	RD4.3E	
⇒ D304,305	8-719-815-55	1S1555	
⇒ D307	8-719-815-55	1S1555	
DL301	1-415-186-00	Delay Line, Y	
DL302	1-415-185-00	Delay Line, 1H	

ICS

Ref. No.	*Part No.*	*Description*	*Remark*
IC201	8-759-014-40	TBA1440G	
IC202	8-759-651-35	M5135P	
IC203	8-759-001-20	TBA120U	
IC301	8-759-113-65	μPC1365C	

COILS

Ref. No.	*Part No.*	*Description*	*Remark*
L201	1-408-268-00	4.7μH	
L205	1-407-738-00	10μH	
L206	1-408-267-00	3.3μH	
L207	1-407-740-00	15μH	
L208	1-408-267-00	3.3μH	
L301	1-408-245-00	22mH	
L302	1-408-307-00	8.2μH	
L303	1-408-270-00	6.8μH	
L304	1-407-742-00	22μH	
L305	1-407-743-00	27μH	
L306	1-407-753-00	180μH	

TRANSISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
Q201,202	8-765-300-00	2SC2009	
⇒ Q203	8-729-663-47	2SC1364	
Q204	8-720-950-03	2SC926A	
C205	8-729-306-92	2SD669A	
C206	8-729-304-92	2SB649A	
Q207	8-729-177-33	2SD773	
Q214	8-729-663-47	2SC1364	
⇒ Q301	8-729-612-77	2SA1027R	
⇒ 302-304	8-729-663-47	2SA1364	
⇒ Q305	8-729-612-77	2SA1027R	

RESISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
R233,234	1-244-875-00	33 ½W carbon (nonflammable)	
RV201	1-224-644-XX	4.7k, adjustable; TU. AGC	
RV202	1-224-645-XX	10k, adjustable; DET. OUT	
RV301	1-224-645-XX	10k, adjustable; SUB BRT	
RV302	1-224-641-XX	470, adjustable; SMB	
RV303	1-224-644-XX	4.7k, adjustable; APC	
RV304	1-224-642-XX	1k, adjustable; PHASE	
RV305	1-222-344-00	5k, adjustable; R. BKG	
RV306	1-222-344-00	5k, adjustable; G. BKG	
RV307	1-222-344-00	5k, adjustable; B. BKG	
RV308	1-224-644-XX	4.7k, adjustable; SUB. COLOUR	
SF201	1-404-190-00	Filter, surface wave	

TRANSFORMERS

Ref. No.	*Part No.*	*Description*	*Remark*
T201	1-404-207-00	VIFT-3	
T202	1-404-203-00	T. REF	
T203	1-404-097-00	SIFT-1	
T204	1-403-810-00	AFT-1	
T205	1-403-811-00	AFT-2	
T206	1-404-135-00	SIFT-2	
T207	1-404-206-00	VIFT-2	
T208	1-403-990-00	VIFT-1	
T301	1-425-995-00	TOT	
T303	1-425-928-00	DAT	
TU202	⚠ 1-463-236-00	UHF Tuner U321	
X301	1-527-530-00	Crystal	

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

C BOARD

Ref. No.	*Part No.*	*Description*	*Remark*
	♠ A-1330-211-A	C Board, complete	E-4

CAPACITORS

Ref. No.	*Part No.*	*Description*	*Remark*
C701,702	1-161-313-00	150p	
C703	1-161-315-00	220p	
C704	1-129-718-00	0.022 630V film	
C705	1-108-389-00	0.1 250V polyethylene	
C707	1-102-155-00	330p 2kV	
L701	1-407-755-00	270μH	
NL701	1-519-108-XX	Lamp, neon 2mA	

TRANSISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
Q701-703	8-729-322-78	2SC2278	

RESISTORS

Ref. No.	*Part No.*	*Description*	*Remark*
R701–703	1-246-485-00	3.3k carbon	
R704,705	1-246-457-00	220 carbon	
R706	1-246-461-00	330 carbon	
R707-709	1-246-457-00	220 carbon	
R710–712	1-206-692-00	15k 2W metal oxide (nonflammable)	
R713-715	1-202-585-00	3.3k ½W composition	
R716	1-202-639-00	560k ½W composition	
R717	1-244-945-00	1M ½W composition	
R718	1-202-543-00	56 ½W composition	
R719	1-202-635-00	390k ½W composition	
R720	1-202-633-00	330k ½W composition	
R721	1-202-619-00	82k ½W composition	
R724	1-244-945-00	1M ½W composition	
RV701	1-226-105-00	220, adjustable; B. DRIVE	
RV702	1-226-105-00	220, adjustable; G. DRIVE	
RV703	1-226-157-00	1M, adjustable; G2	
RV704	1-226-114-00	2.2M, adjustable; FOCUS	
SG701–705	1-519-063-XX	Spark Gap	

D BOARD

Ref. No.	*Part No.*	*Description*	*Rem*
	♠ A-1345-238-A	D Board, complete	E-56

CAPACITORS

Ref. No.	*Part No.*	*Description*	*Rem*
C501	1-123-352-00	1 50V elect	
C502	1-123-320-00	100 16V elect	
C503,504	1-108-375-00	0.0068 100V mylar	
C505	1-108-389-00	0.1 100V polyethylene	
C506	1-108-385-00	0.047 250V polyethylene	
C507	1-106-188-00	0.0047 100V mylar	
C508	1-123-317-00	22 16V elect	
C509	1-123-363-00	470 50V elect	
C510	1-123-356-00	10 50V elect	
C511	1-102-050-00	0.01 500V	
C512	1-123-356-00	10 50V elect	
C513	1-130-243-00	0.15 100V polyethylene	
C514	1-123-269-00	4.7 160V elect	
C515	1-108-381-00	0.022 400V polyethylene	
C516	1-129-708-00	3300p 630V polyethylene	
C517	1-108-381-00	0.022 400V polyethylene	
C518	1-108-393-00	0.22 100V polyethylene	
C519	1-108-389-00	0.1 100V polyethylene	
C524	1-129-701-00	0.01 100V film	
C526	1-106-188-00	0.0047 100V mylar	
C528	1-108-381-00	0.022 400V polyethylene	
C529	1-131-199-00	10 16V tantalum	
C530	1-123-345-00	100 35V elect	
C531	1-123-354-00	3.3 50V elect	
C532	1-123-330-00	22 25V elect	
C533	1-123-317-00	22 16V elect	
C534	1-121-450-00	2.2 50V elect	
C536	1-108-375-00	0.0068 100V mylar	
C539	1-108-637-00	0.082 100V mylar	
C540	1-108-382-00	0.027 100V mylar	
C541	1-123-352-00	1 50V elect	
C542	1-123-355-00	4.7 50V elect	
C543	1-108-377-00	0.01 400V polyethylene	
C544	1-108-389-00	0.1 100V polyethylene	
C545	1-108-369-11	0.0022 100V mylar	

- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	*Part No.*	*Description*			*Remark*
C546	1-102-030-00	330p	500V		
C547	1-123-319-00	47	16V	elect	
C548	1-123-352-00	1	50V	elect	
C549	1-108-389-00	0.1	100V	polyethylene	
C552	1-123-320-00	100	16V	elect	
C597	1-102-030-00	330p	500V		
C599	1-102-030-00	330p	500V		

DIODES

⇒ D501	8-719-815-55	1S1555	
⇒ D503	8-719-200-02	10E2	
⇒ D504	8-719-815-55	1S1555	
⇒ D505-507	8-719-815-55	10E2	
⇒ D508	8-719-113-07	RD13E	
⇒ D509-512	8-719-815-55	1S1555	

IC

IC501	8-751-570-00	CX157	

COILS

L501	1-459-105-00	2.7mH	
L502,503	1-408-246-00	27mH	
L506	1-408-242-00	10mH	
L507	1-408-247-00	33mH	
L508	1-435-055-21	PAC	
L510	1-408-270-00	6.8μH	

TRANSISTORS

⇒ Q501	8-726-663-47	2SC1364	
⇒ Q502	8-762-170-01	2SC1962	
Q503	8-765-500-00	2SC2141	
Q504	8-765-510-00	2SA951	
⇒ Q506	8-760-468-43	2SA684	
⇒ Q507	8-762-170-01	2SC1962	
⇒ Q508-510	8-729-663-47	2SC1364	
⇒ Q511	8-760-523-10	2SA772	
⇒ Q512	8-729-201-52	2SA1015	

Ref. No.	*Part No.*	*Description*			*Remark*

RESISTORS

R518	1-212-360-00	1	1W	metal oxide (nonflammable)	
R519	1-213-140-00	560	1W	metal oxide (nonflammable)	
R520	1-213-142-00	820	1W	metal oxide (nonflammable)	
R522	1-244-875-00	1.2k	½W	carbon	
R523	1-217-394-00	39	¼W	Fuse (nonflammable)	
R524	1-211-930-00	33	⅛W	carbon (nonflammable)	
R525	1-244-999-00	10	¼W	carbon (nonflammable)	
R526, 527	1-212-361-00	1.2	1W	metal oxide (nonflammable)	
R531	1-202-625-00	150k	½W	composition	
R543	1-206-642-00	120	2W	metal oxide (nonflammable)	
R551	1-244-875-00	1.2k	½W	carbon	
R552	1-213-135-00	220	1W	metal oxide (nonflammable)	
R553	1-213-124-00	27	1W	metal oxide (nonflammable)	
R575	1-213-126-00	39	1W	metal oxide (nonflammable)	
RV501	1-224-972-00	20k, variable; V. HOLD			
RV502	1-222-807-XX	20k, adjustable; V. SIZE			
RV503	1-221-970-XX	500, adjustable; V. CENT			
RV504	1-221-956-XX	50k, adjustable; PIN AMP			
RV505	1-224-642-XX	1k, adjustable; H. SIZE			
RV506	1-222-807-XX	20k, adjustable; Y. BOW			
RV509	1-221-970-XX	500, adjustable; H. AMP			
RV510	1-222-344-00	5k, adjustable; H. TILT			
RV511	1-224-640-XX	330, adjustable; PIN. PHASE			
T501	1-421-245-11	Transformer, pincushion			
TH502	1-800-279-12	Thermister, 5k			
TH503	1-800-378-00	Thermister, S-150			

E BOARD

♠	A-1345-239-A	E Board, complete	E-57

CAPACITORS

C801	1-123-329-00	10	25V	elect	
C802	1-108-369-00	0.0022	100V	mylar	
C803	1-130-228-00	0.011	1.2kV	film	
C804	1-102-030-00	330p	500V		
C805,806	1-108-383-00	0.033	250V	Polyethylene	
C807	1-108-387-00	0.068	100V	polyethylene	
C809	1-130-272-00	0.033	100V	polyethylene	
C810	1-108-389-00	0.1	100V	polyethylene	

- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	*Part No.*	*Description*		*Remark*
C811	1-123-351-00	0.47	50V	elect
C812	1-108-377-00	0.01	400V	polyethylene
C813	1-102-228-00	470p	500V	
C814	1-102-212-00	820p	500V	
C815	1-102-223-00	4700p	1.6kV	
C817,818	1-123-320-00	100	16V	elect
C820	1-123-310-00	470	10V	elect
C823	1-102-249-00	680p	2kV	
C824	1-130-157-00	1	200V	polyethylene
C826	1-129-949-00	1	400V	polyethylene
C827	1-108-393-00	0.22	250V	polyethylene
C828	1-121-757-00	33	160V	elect
C829	1-123-328-00	4.7	25V	elect
C830	1-108-377-00	0.01	400V	polyethylene
C831,832	1-108-389-00	0.1	250V	polyethylene
C833	1-123-351-00	0.47	50V	elect
C835	1-102-155-00	330p	2kV	
C836	1-102-249-00	680p	2kV	

DIODES

⇒ D801,802	8-719-815-55	1S1555
D803	8-719-926-20	ERB26-20
⇒ D805,806	8-719-900-93	V09C
⇒ D810	8-719-305-15	GH3F
⇒ D811	8-719-305-15	GH3F

COILS

L803	1-459-059-00	12mH
L805	1-408-225-00	3.3μH
L806	1-407-365-00	0.74μH
L808,809	1-408-225-00	3.3μH
L810	1-459-125-00	HLC
L811	1-459-263-00	300μH
L812	1-408-241-00	8.2mH
L814	1-407-365-00	0.74μH
L815	1-459-215-00	120μH

TRANSISTORS

⇒ Q801	8-729-612-77	2SA1027R
Q802	8-729-372-31	2SC1723

Ref. No.	*Part No.*	*Description*		*Remark*

RESISTORS

R803	1-202-597-00	10k	½W	composition
R809	1-213-162-00	39k	1W	metal oixde (nonflammable)
R816	1-206-733-00	2.2k	3W	metal oxide (nonflammable)
R818	1-202-635-00	390k	½W	composition
R819	1-247-040-00	1k	⅛W	carbon (nonflammable)
R820	1-212-376-00	22	1W	metal oxide (nonflammable)
R821	1-206-443-00	1.5	2W	metal oxide (nonflammable)
R822	1-202-589-00	4.7k	½W	composition
R824	1-212-360-00	1	1W	metal oxide (nonflammable)
R825	1-206-664-00	1k	2W	metal oxide (nonflammable)
R827	1-213-133-00	150	1W	metal oxide (nonflammable)
R828	1-206-443-00	1.5	2W	metal oxide (nonflammable)
R832	1-202-597-00	10k	½W	composition
R833	1-202-615-00	56k	½W	composition
R835	1-206-664-00	1k	2W	metal oxide (nonflammable)
R837,838	1-212-370-00	6.8	1W	metal oxide (nonflammable)
RV801	1-223-064-00	150, adjustable; H. CENT		
SG801	1-519-063-XX	Spark Gap		

TRANSFORMERS

T801	1-405-760-00	Horizontal Blocking Oscillation, HBT
T802	⚠1-439-244-00	Flyback, FBT
T803	1-437-078-00	Horizontal Drive, HDT

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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F BOARD

Ref. No.	Part No.	Description	Remark
	♠ A-1245-108-A	F Board, complete	E-55

CAPACITORS

Ref. No.	Part No.	Description			Remark
C601	⚠1-108-745-00	0.22	300V	film	
C602	⚠1-108-747-00	0.1	300V	film	
C603–605	1-102-085-00	0.0047	500V		
C606	1-125-167-00	250	400V	elect	
C607	1-102-845-00	3.3	50V	elect	
C608	1-123-354-00	3.3	50V	elect	
C609	1-123-351-00	0.47	50V	elect	
C610	1-130-017-00	820p		polyethylene	
C612	1-130-026-00	0.0047		film	
C613	1-108-381-00	0.022	400V	polyethylene	
C614	1-102-030-00	330p	500V		
C616	1-101-810-00	100p	500V		
C617	1-108-423-00	0.015	400V	polyethylene	
C619	1-102-327-00	330p	1.5kV		
C621	1-121-999-00	10	160V	elect	
C622	1-121-757-00	33	160V	elect	
C623	1-108-365-00	0.001	100V	mylar	
C625	1-123-297-00	330	6.3V	elect	
C626	1-123-352-00	1	50V	elect	
C627	1-123-252-00	1	160V	elect	
C641	1-123-254-00	10	250V	elect	
C642	1-123-362-00	330	50V	elect	
C643	1-123-334-00	220	25V	elect	
C644	1-123-308-00	220	10V	elect	
C645	1-123-356-00	10	50V	elect	
C646	1-123-334-00	220	25V	elect	
C647	1-161-731-00	1000p	2kV		
C649	1-102-030-00	330p	500V		
C651	1-123-360-00	100	50V	elect	
C653	1-123-316-00	10	16V	elect	

DIODES

Ref. No.	Part No.	Description	Remark
⇒D601–604	8-719-911-55	U05G	
D605	8-719-113-25	RD13E	
⇒D606	8-719-815-55	1S1555	
⇒D609	8-719-305-15	GH3F	
⇒D612–614	8-719-815-55	1S1555	
⇒D615	8-719-200-02	10E2	
⇒D641	8-719-305-15	GH3F	
⇒D642, 643	8-719-924-06	ERC24-06C	
⇒D644, 645	8-719-305-15	GH3F	
⇒D646	8-719-924-06	ERC24-06C	
⇒D651, 652	8-719-200-02	10E2	
⇒D653	8-719-113-07	RD13E	
F601	⚠1-532-237-00	Fuse, 3.15 AT	

COILS

Ref. No.	Part No.	Description	Remark
L602	1-407-365-00	0.74μH	
L603	1-408-300-00	6.8μH	
L641	1-459-215-00	120μH	
L642	1-407-167-XX	68μH	
L643	1-407-364-00	3.3μH	
L644	1-407-184-XX	3.3μH	
PTH601	⚠1-800-955-00	Thermister,	

TRANSISTORS

Ref. No.	Part No.	Description	Remark
⇒Q601	8-729-201-52	2SA1015	
⇒Q602	8-726-663-47	2SC1364	
⇒Q603	8-729-663-47	2SC1364	
⇒Q604	8-765-170-01	2SC1962	
⇒Q605	8-729-341-34	2SC1413A	
Q606	8-729-163-93	2SA639S	
⇒Q607	8-729-663-47	2SC1364	
⇒Q608	8-729-201-52	2SA1015	
⇒Q609,610	8-729-663-47	2SC1364	
⇒Q651	8-760-413-10	2SC1475	

RESISTORS

Ref. No.	Part No.	Description	
R603	1-214-475-00	68k	2W (no
R604	1-213-160-00	27k	1W (n
R605	1-202-643-00	820k	½W
R606	1-213-161-00	33k	1W (non
R623, 624	1-206-758-00	24k	3W (n

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Some delay should be anti-
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Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked "♠" are not sto
required for routine service. S
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Ref. No.	*Part No.*	*Description*	*Remark*
R625	1-206-696-00	22k 2W metal oxide (nonflammable)	
R626	1-211-427-00	100 ⅛W metal oxide (nonflammable)	
R627	1-212-358-00	0.68 1W metal oxide (nonflammable)	
R628	1-212-353-00	0.27 1W metal oxide (nonflammable)	
R640	1-247-436-00	10k ⅛W carbon	
R641	1-206-749-00	10k 3W metal oxide (nonflammable)	
R642	1-246-979-00	1.2 ⅛W carbon (nonflammable)	
R644	1-207-451-00	0.1 ½W wirewound	
R651, 652	1-246-979-00	1.2 ⅛W carbon (nonflammable)	
RV601	1-224-643-XX	2.2k, adjustable; 135V ADJ	

TRANSFORMERS

T601	⚠1-421-352-00	Line Filter, LFT	
T602	1-446-194-00	Regulator Drive, RDT	
T603	1-413-040-00	Switching Regulator, SRT	
T651	⚠1-446-360-00	Power, PT	

THERMISTER

TH601	⚠1-800-820-00	Power	
TH602	1-800-070-00	TH-4700	
TH603, 604	1-800-202-XX	S-10k	

H BOARD

	♠ 1-600-964-00	H Board	E-102
RV401	1-224-554-00	20k, variable; TONE	
RV402	1-224-554-00	20k, variable; BRIGHTNESS	

M BOARD

	♠ A-1306-030-A	M Board, complete	E-101

CAPACITORS

C002	1-123-316-00	10 16V elect	

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*	*Remark*
C003, 004	1-123-352-00	1 50V elect	
C005, 006	1-161-313-00	150p	
C007	1-123-354-00	3.3 50V elect	
C008	1-123-352-00	1 50V elect	
C009	1-123-354-00	3.3 50V elect	
C010	1-121-806-00	10 16V elect	
C011–013	1-123-352-00	1 50V elect	
C016	1-123-351-00	0.47 50V elect	
C017	1-123-316-00	10 16V elect	
C018	1-123-319-00	47 16V elect	
C019, 020	1-161-051-00	0.01	
C021	1-161-271-00	100p	
C022	1-123-352-00	1 50V elect	
C023	1-123-353-00	2.2 50V elect	
CF001	1-527-476-00	Radiator, ceramic	

DIODES

⇒D001	8-719-815-55	1S1555	
D005	8-759-157-40	µPC574J	
D451	8-719-812-41	TLR124	

ICS

IC001	8-759-997-70	SN29770AN	
IC002	8-759-997-71	SN29771AN	
IC003	8-759-684-85	M58485P	
IC451	8-759-997-64	SN29764N	
LED451	8-719-171-60	SN716	

TRANSISTORS

⇒Q001	8-729-663-47	2SC1364	
⇒Q002	8-729-201-52	2SA1015	
Q003	8-722-383-40	2SK23A	
⇒Q004	8-729-201-52	2SA1015	

RESISTORS

R010	1-206-690-00	12k 2W metal oxide (nonflammable)	
RV001–008	1-226-343-00	Variable; CH PRESET	
RV009	1-226-637-00	20k, variable; SOUND SUB VOLUME	

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Ref. No.	Part No.	Description	Remark
S001	1-516-933-00	Switch, pushbutton; AFT	
S451	1-552-174-00	Switch, pushbutton; VOLUME UP	
S452	1-552-174-00	Switch, pushbutton; VOLUME DOWN	
S453	1-552-174-00	Switch, pushbutton; PROGRAMME UP	
S454	1-552-174-00	Switch, pushbutton; PROGRAMME DOWN	
S455	1-552-174-00	Switch, pushbutton; COLOUR UP	
S456	1-552-174-00	Switch, pushbutton; COLOUR DOWN	
S457	1-552-174-00	Switch, pushbutton; PICTURE UP	
S458	1-552-174-00	Switch, pushbutton; PICTURE DOWN	

X BOARD

Ref. No.	Part No.	Description	Remark
	♦ A-1394-004-A	X Board, complete	E-103

CAPACITORS

Ref. No.	Part No.	Description			Remark
C151	1-123-316-00	10	16V	elect	
C152	1-161-269-00	68p			
C153, 154	1-108-377-00	0.01	100V	mylar	
C155, 156	1-123-316-00	10	16V	elect	
C157	1-123-352-00	1	50V	elect	
C159	1-161-269-00	68p			

DIODE

Ref. No.	Part No.	Description	Remark
⇒ D151	8-729-100-03	PH302A	

COIL

Ref. No.	Part No.	Description	Remark
L151	1-409-315-00	100mH	

TRANSISTORS

Ref. No.	Part No.	Description	Remark
Q151	8-722-383-40	2SK23A	
⇒ Q152	8-729-663-47	2SC1364	
⇒ Q153	8-729-201-52	2SA1015	
⇒ Q154	8-729-663-47	2SC1364	

MISCELLANEOUS

Ref. No.	Part No.	Description			Remark
C901	⚠1-130-334-00	0.001	1.2kV	film	
C902	1-108-377-00	0.01	100V	mylar	
C903	1-121-257-00	4.7	16V	elect	
J901	1-507-539-11	Jack; EARPIECE			E-10
L901, 902	⚠1-454-166-00	Coil, degaussing, DGC			E-51
L904	⚠1-451-175-11	Deflection Yoke, DY			E-5
L905	⚠1-452-099-11	Neck Ass'y, picture tube			E-3
L906	1-407-364-00	Coil, spook choke			
L907	1-407-780-00	Coil, spook choke; 3.3μH			

TRANSISTOR

Ref. No.	Part No.	Description	Remark
Q901	8-729-372-51	2SD725	E-59

THYRISTOR

Ref. No.	Part No.	Description			Remark
Q902	8-726-400-00	SG264A			E-60
R901	1-202-549-00	100	½W	composition	
S901	⚠1-552-116-00	Switch, pushbutton POWER			E-11
SP901	1-502-650-00	Speaker, 8Ω			E-9
T901	⚠1-427-402-00	Transformer, sound output; SOT			E-8
V901	⚠8-737-606-00	Picture Tube, 570EB22			E-1
VDR901	⚠1-800-782-00	Varistor			
	⚠1-226-271-00	Resistor Ass'y, high-voltage			E-58
	1-452-032-00	Magnet, disc; 10mm dia.			E-6
	1-452-094-00	Magnet, rotatable disk; 15mm dia.			E-7
	1-452-133-00	Magnet, BMC			E-2
	1-526-086-XX	Socket, picture tube			
	♦ 1-535-283-11	Terminal, ground			E-61
	1-536-392-XX	Terminal strip			E-52
	⚠1-536-473-00	Terminal, antenna			E-53
	⚠1-551-487-00	Cord, power			E-12

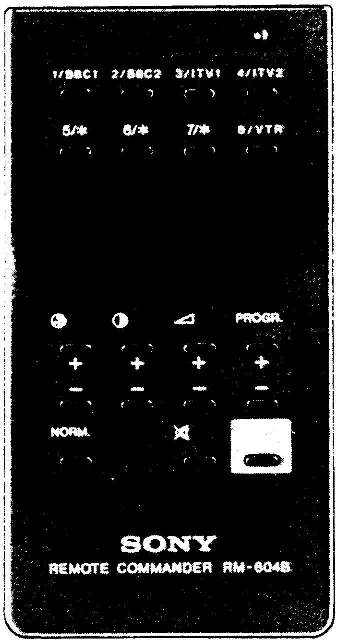
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

ACCESSORIES & PACKING MATERIALS

Part No.	*Description*	*Remark*
A-1009-014-A	Commander, RM-604B	
1-504-034-72	Earpiece, ME-20E	
3-701-626-00	Bag, polyethylene	
4-323-926-00	Cushion (upper right)	
4-323-927-00	Cushion (upper left)	
4-323-928-00	Cushion (lower right)	
4-323-929-00	Cushion (lower left)	
4-323-939-00	Spacer	
4-323-940-00	Sheet, protect	
4-337-108-01	Carton	
4-495-857-41	Manual, instruction	

RM-604B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2/BBC2
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SONY
REMOTE COMMANDER RM-604B

REMOTE COMMANDER

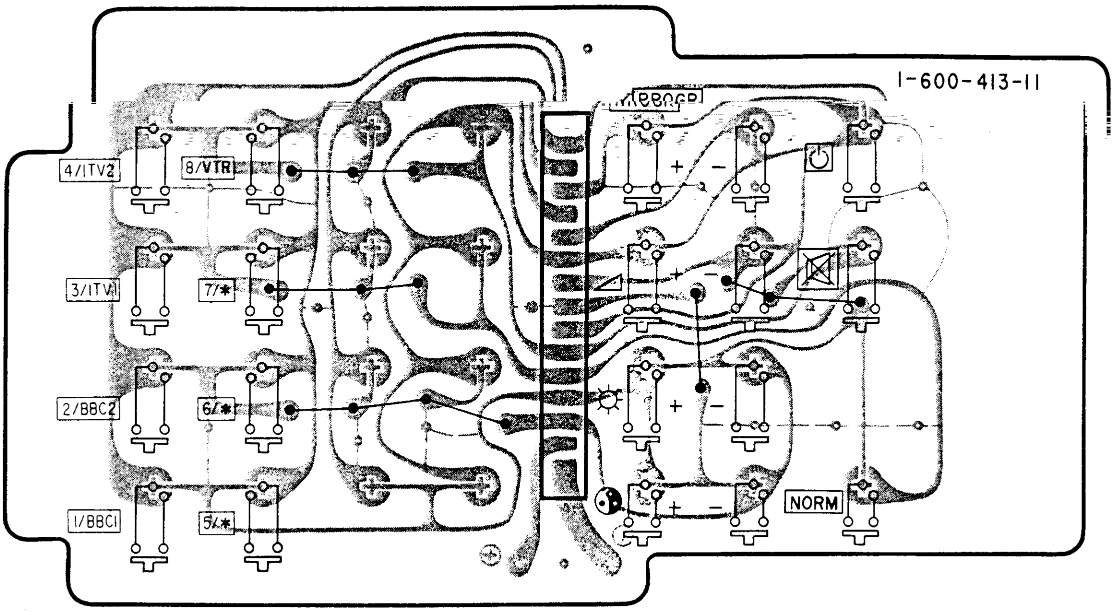
SPECIFICATIONS

Remote Control System: Imfrared control
Power Requirements: 6Vdc, 4 batteries size "AA"
(IEC designation R6)
Dimensions: Approx.75(w) x 40(h) x 135(d) mm
3(w) x $1^{5}/_{8}$ (h) x $5^{3}/_{8}$ (d) inches
Net Weight: Approx.215g (8 oz.)
including batteries
Accessories Supplied: Batteries size "AA"
(IEC designation R6)

1. MOUNTING DIAGRAM

– Conductor Side –

– R2 Board –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B
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1-600-413-11
4/ITV2
8/VTR
3/ITV1
7/*
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1/BBC1
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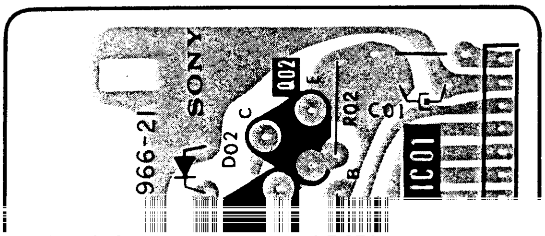
– R1 Board –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SONY
966-21
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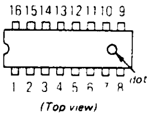
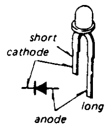
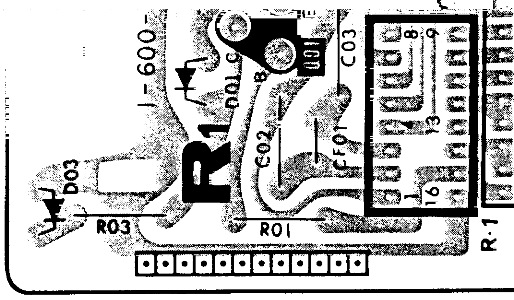
C01
IC01

M58484P

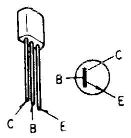

16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
dot
(Top view)

TLR124

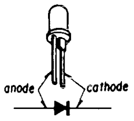

short
cathode
long
anode


4
5
1-600-
D01
Q01
C
B
C03
R1
C02
CF01
D03
R03
R01
8
9
13
16
1
R-1

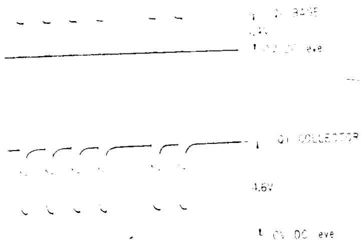
FRB828B

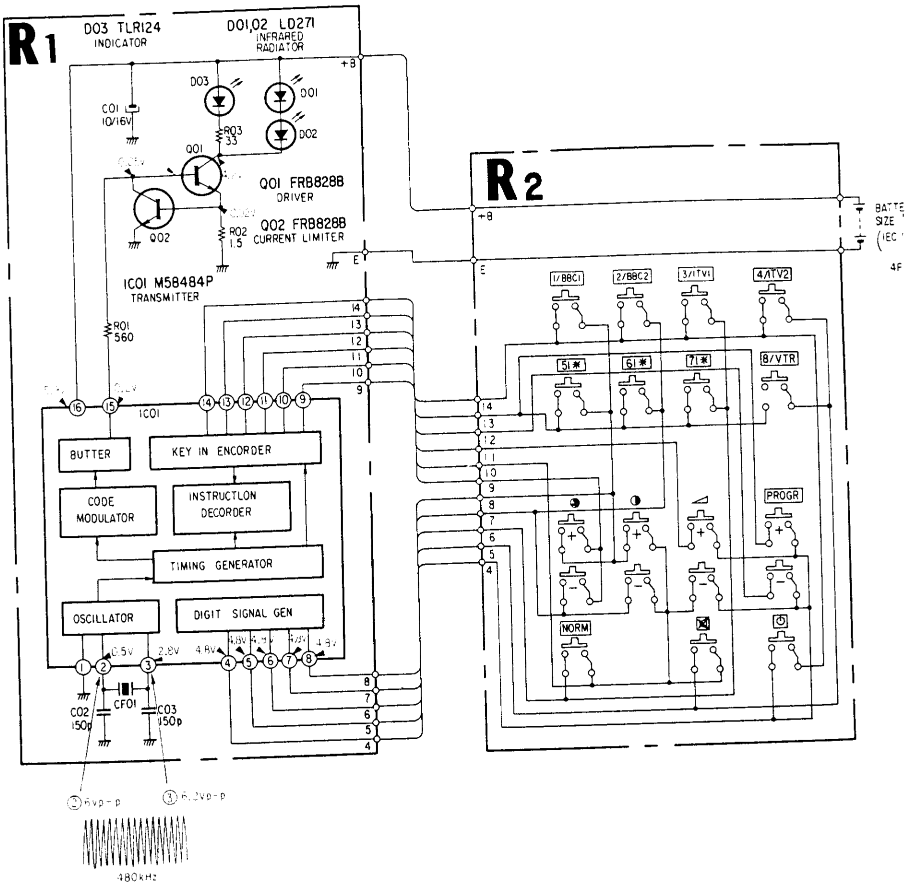


LD271


anode
cathode

2. SCHEMATIC DIAGRAM




R1
D03 TLR124
INDICATOR
D01,02 LD271
INFRARED RADIATOR
+B
D03
D01
D02
C01
10/16V
R03
33
Q01
Q01 FRB828B
DRIVER
Q02 FRB828B
CURRENT LIMITER
Q02
R02
1.5
E
IC01 M58484P
TRANSMITTER
R01
560
IC01
BUTTER
KEY IN ENCORDER
CODE MODULATOR
INSTRUCTLON DECORDER
TIMING GENERATOR
OSCILLATOR
DIGIT SIGNAL GEN
0.5V
2.8V
4.8V
C02
150p
CF01
C03
150p
② 6Vp-p
③ 6.2Vp-p
480kHz
R2
+B
E
BATTERY SIZE (IEC)
4F
1/BBC1
2/BBC2
3/ITV1
4/ITV2
5I✱
6I✱
7I✱
8/VTR
PROGR
NORM
+
−

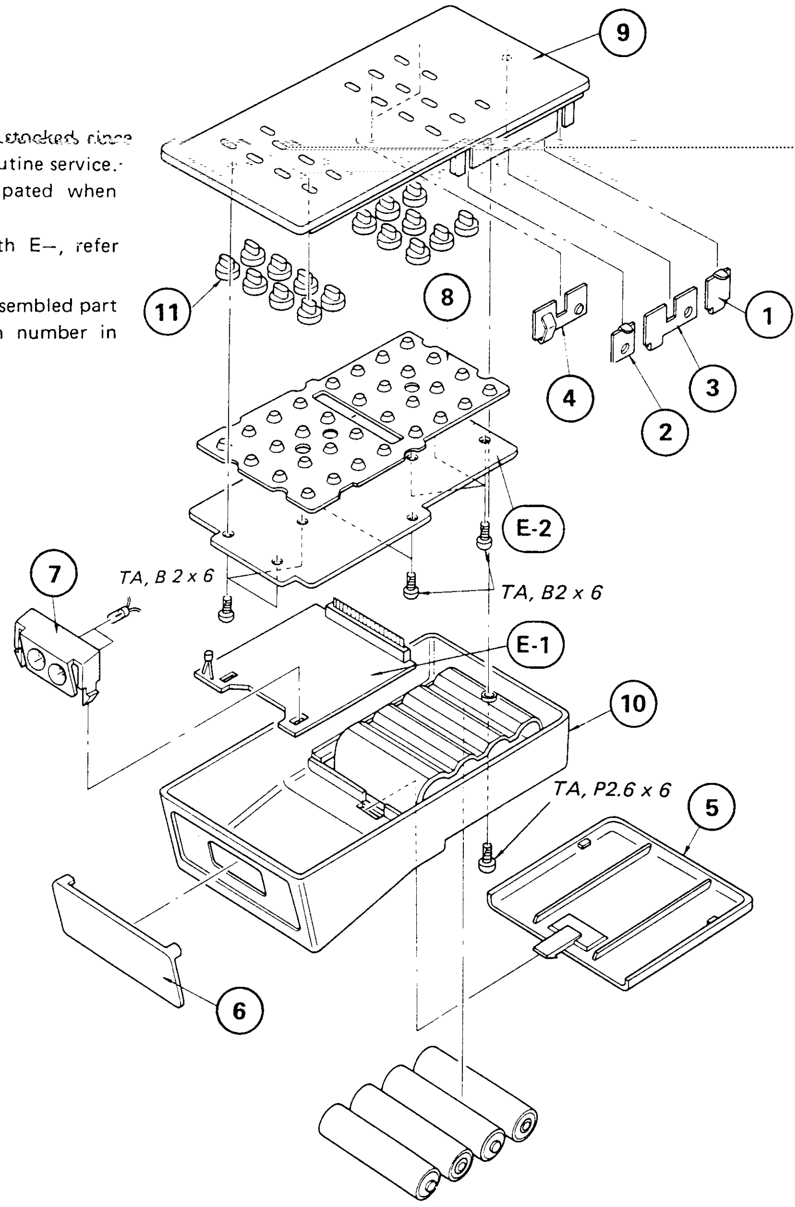
IC PIN / MODE	⑨	⑩	⑪	⑫	⑬	⑭
CH-1	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-2	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-3	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-4	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-5	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-6	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-7	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-8/VTR	5.3	5.3	5.3	5.3	(4.8)	5.3
◕ +	(4.8)	5.3	5.3	5.3	5.3	5.3
−	(4.8)	5.3	5.3	5.3	5.3	5.3
◑ +	5.3	(4.8)	5.3	5.3	5.3	5.3
−	5.3	(4.8)	5.3	5.3	5.3	5.3
◿ +	5.3	5.3	(4.8)	5.3	5.3	5.3
−	5.3	(4.8)	5.3	5.3	5.3	5.3
PROGR +	5.3	5.3	5.3	5.3	(4.8)	5.3
−	5.3	5.3	5.3	(4.8)	5.3	5.3
NORM	5.3	(4.8)	5.3	5.3	5.3	5.3
⊠	5.3	(4.8)	5.3	5.3	5.3	5.3
⏻	5.3	5.3	5.3	5.3	5.3	(4.8)

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω; MΩ : 1000kΩ
- ☐: panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.

3. EXPLODED VIEW

Note:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12
- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- As to the part numbered with E–, refer to the electrical parts list.
- The construction parts of an assembled part are indicated with a collation number in the remark column.



No.	Part No.	Description	Remark
1	2-249-918-00	Terminal (A), battery	
2	2-249-919-00	Terminal (B), battery	
3	2-249-920-00	Terminal (C), battery	
4	2-249-921-00	Terminal (D), battery	
5	2-249-922-00	Cover, battery	
6	2-249-923-00	Plate, frosted	
7	2-249-924-00	Reflector	
8	2-249-925-00	Contact, rubber	
9	2-249-926-00	Case (upper)	
10	2-249-927-00	Case (lower)	
11	3-706-272-00	Key, top	

Ref. No.	*Part No.*	*Description*	*Remark*
		R1 BOARD	
	♦1-600-966-00	R1 Board	E-1
		CAPACITORS	
C01	1-131-199-00	10 16V tantalum	
C02, 03	1-161-313-00	150p	
CF01	1-527-476-00	Ceramic Filter	
		DIODES	
⇒D01, 02	8-719-103-03	SE303A	
D03	8-719-812-41	TLR124	
		IC	
IC01	8-759-684-84	M58484P	
		TRANSISTORS	
⇒ Q01, 02	8-729-663-47	2SC1364	
		R2 BOARD	
	♦1-600-413-00	R2 Board	E-2

ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*
1-528-067-00	Battery, size "AA" (IEC designation R6)
3-701-616-00	Bag, polyethylene
3-701-624-00	Bag, polyethylene

Note:

- ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF, elect : electrolytic

RESISTORS

- All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.

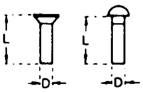
1/4 WATT CARBON RESISTORS

Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw: — P 3 x 10

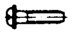
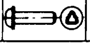
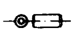
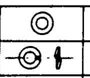
L: Length in mm
D: Diameter in mm
Type of head
Indicated slotted-head only.
Unless otherwise indicated, it means cross-recessed head (Phillips type).



Nut, Washer, Retaining ring: N 3

Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

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CURRYS GROUP SERVICE LIMITED

Technical Publication
Ascot Road, Feltham, Middlesex

Telephone Ashford (Middx) 50021
Telex 934910

Technical bulletin

TECHNICAL TIP NO. 39

Model KV - 2204

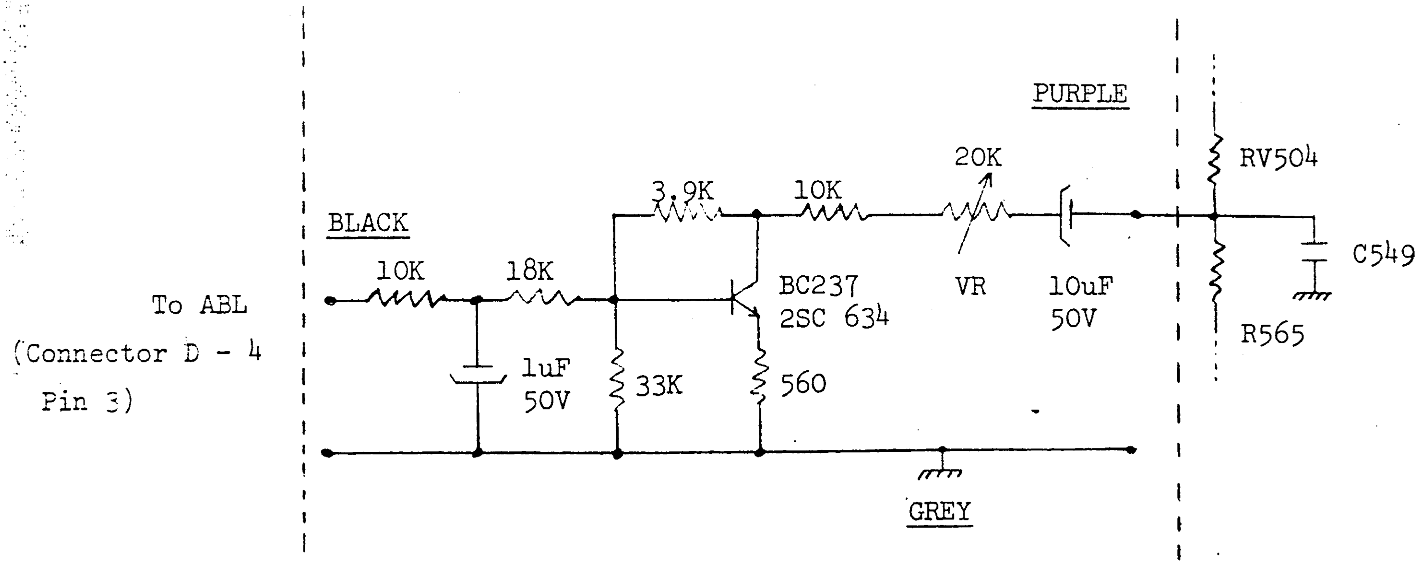
Date April '80 Ref. KVK-0210

Subject

KV - 2204 PIN CUSHION DISTORTION

If pin cushion distortion is experienced on this model, an additional board is available to provide extra correction. The part number of this board is A-134-035-1A and the connector is 1-551-675-11.

Circuit is as follows:-


PURPLE
20K
RV504
3.9K
10K
BLACK
C549
10K
18K
BC237
2SC 634
VR
10uF
50V
To ABL
(Connector D - 4
Pin 3)
R565
1uF
50V
33K
560
GREY

All three connections can be made on to D Board.

ADJUSTMENT

Set variable resistor to maximum and with brightness at maximum, adjust Pin Amp on receiver for least distortion. Set brightness at minimum and adjust VR for least distortion. Repeat adjustments for optimum performance.

Note that a power supply is NOT required for this board.

Physical location is to be decided by service personnel, but the board should be kept away from EHT etc..

-o0o-

SONY
TRINITRON®
COLOUR TV

KV-2204UB

Chassis No. SCC-244A-A

MOUNTING DIAGRAM

WARNING

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

CAUTION

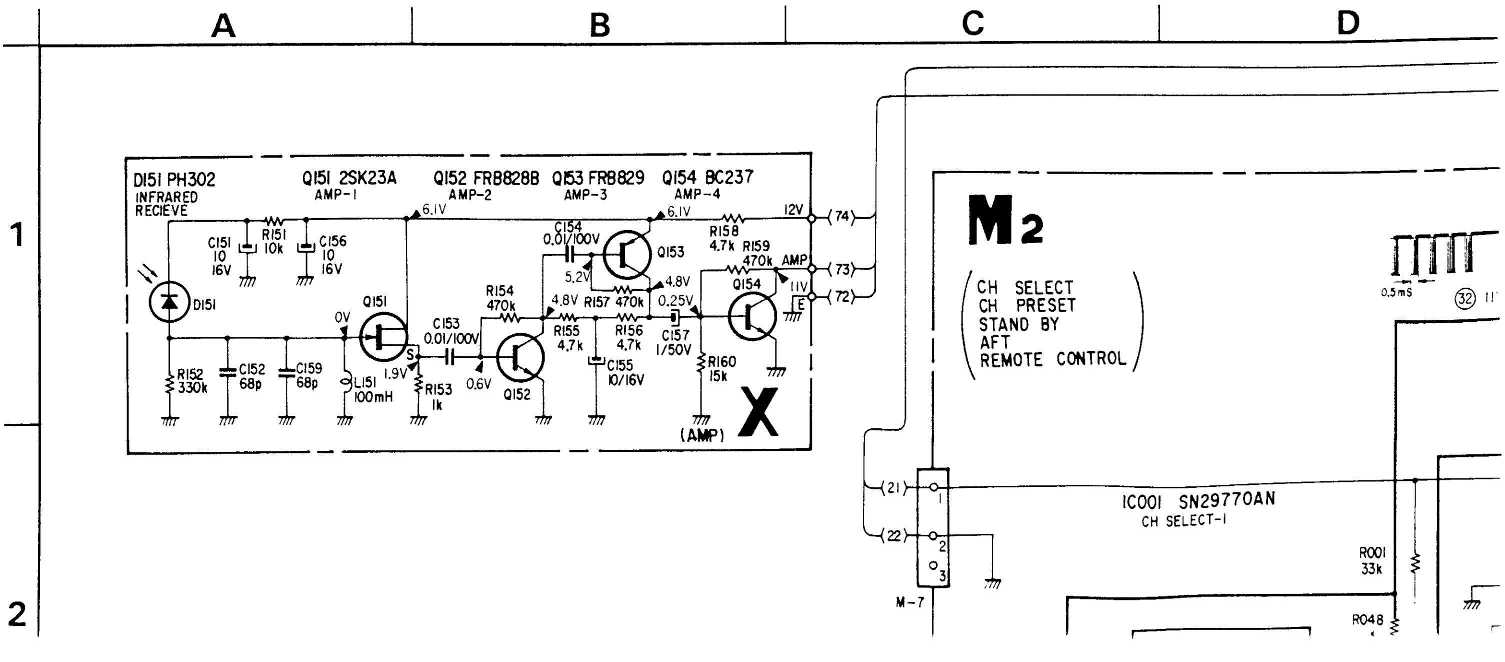
- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. p : $\mu\mu$F 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ※ : selected to yield optimum performance.
- ⊘ : adjustable without removing cabinet.
- ▭: adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- Do not touch the base of Q608 with the VOM probe, as B+ voltage will not be supplied to the set.
- Voltages of Q512 are taken with D-7 removed and also TH502 short-circuited.

SCHEMATIC DIAGRAM



A
B
C
D
1
2
D151 PH302
INFRARED RECIEVE
Q151 2SK23A
AMP-1
Q152 FRB828B
AMP-2
Q153 FRB829
AMP-3
Q154 BC237
AMP-4
6.1V
6.1V
12V
C151 10 16V
R151 10k
C156 10 16V
C154 0.01/100V
Q153
5.2V
4.8V
R158 4.7k
R159 470k
AMP
11V
E
D151
Q151
0V
R154 470k
4.8V
R157 470k
0.25V
Q154
C153 0.01/100V
S
1.9V
R155 4.7k
R156 4.7k
C157 1/50V
R152 330k
C152 68p
C159 68p
L151 100mH
R153 1k
0.6V
Q152
C155 10/16V
R160 15k
(AMP)
X
74
73
72
M2
CH SELECT
CH PRESET
STAND BY
AFT
REMOTE CONTROL
0.5mS
32
21
22
1
2
3
M-7
IC001 SN29770AN
CH SELECT-1
R001 33k
R048

MOUNTING DIAGRAM

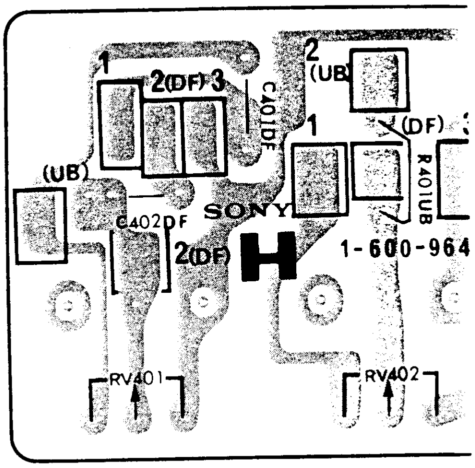
ote: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

:
- ll capacitors are in μF unless otherwise noted. p : μμF
- 0WV or less are not indicated except for electrolytics.
- ll resistors are in ohms, ¼W unless otherwise noted.
- Ω : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- △ : internal component.
- : panel designation.
- ll variable and adjustable resistors have characteristic ırve B, unless otherwise noted.
- oltages are dc with respect to ground unless otherwise oted.
- eadings are taken with a 20,000-ohm-per-volt VOM.
- ※ : selected to yield optimum performance.
- ⊘ : adjustable without removing cabinet.
- : adjustment for repair.
- 'oltage variations may be noted due to normal production tolerances.
-)o not touch the base of Q608 with the VOM probe, s B+ voltage will not be supplied to the set.
- 'oltages of Q512 are taken with D-7 removed and also 'H502 short-circuited.

A B

H [CUSTOMER CONTROL]

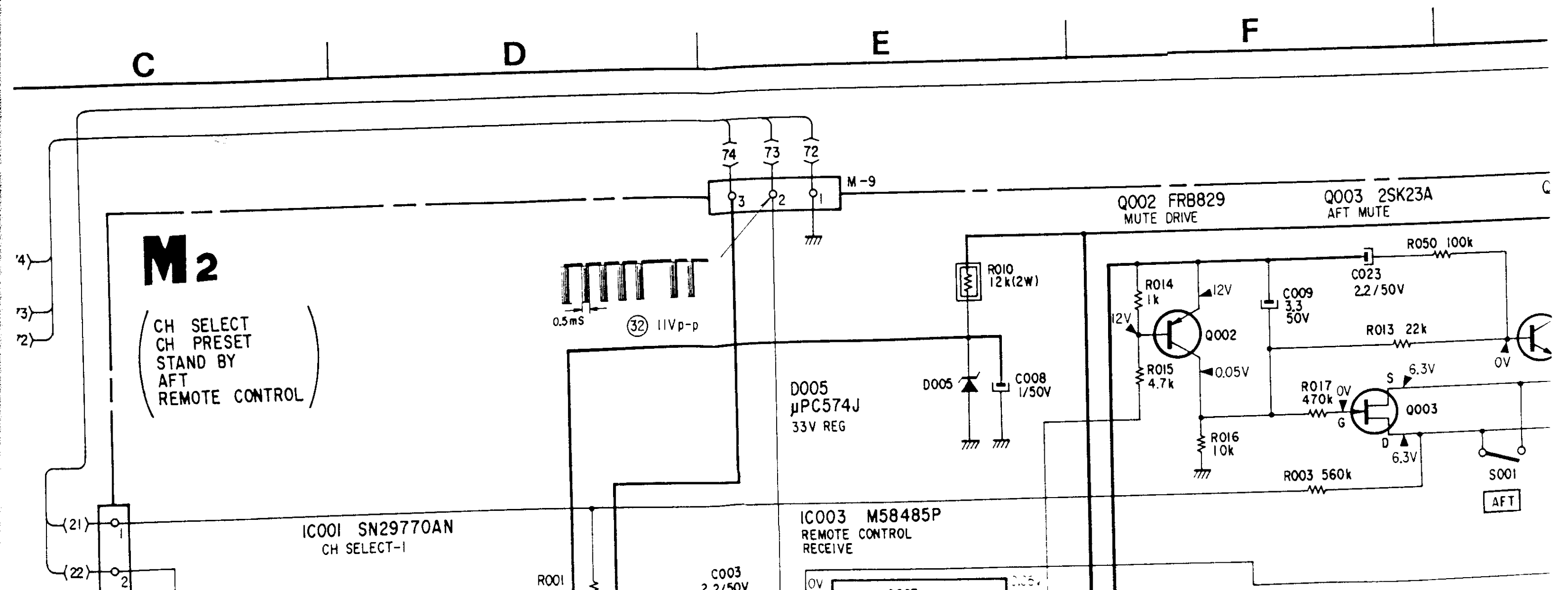
1


1
2(DF)3
C401DF
2
(UB)
1
(DF)
R401UB
(UB)
C402DF
SONY
2(DF)
H
1-600-964
RV401
RV402

2

3

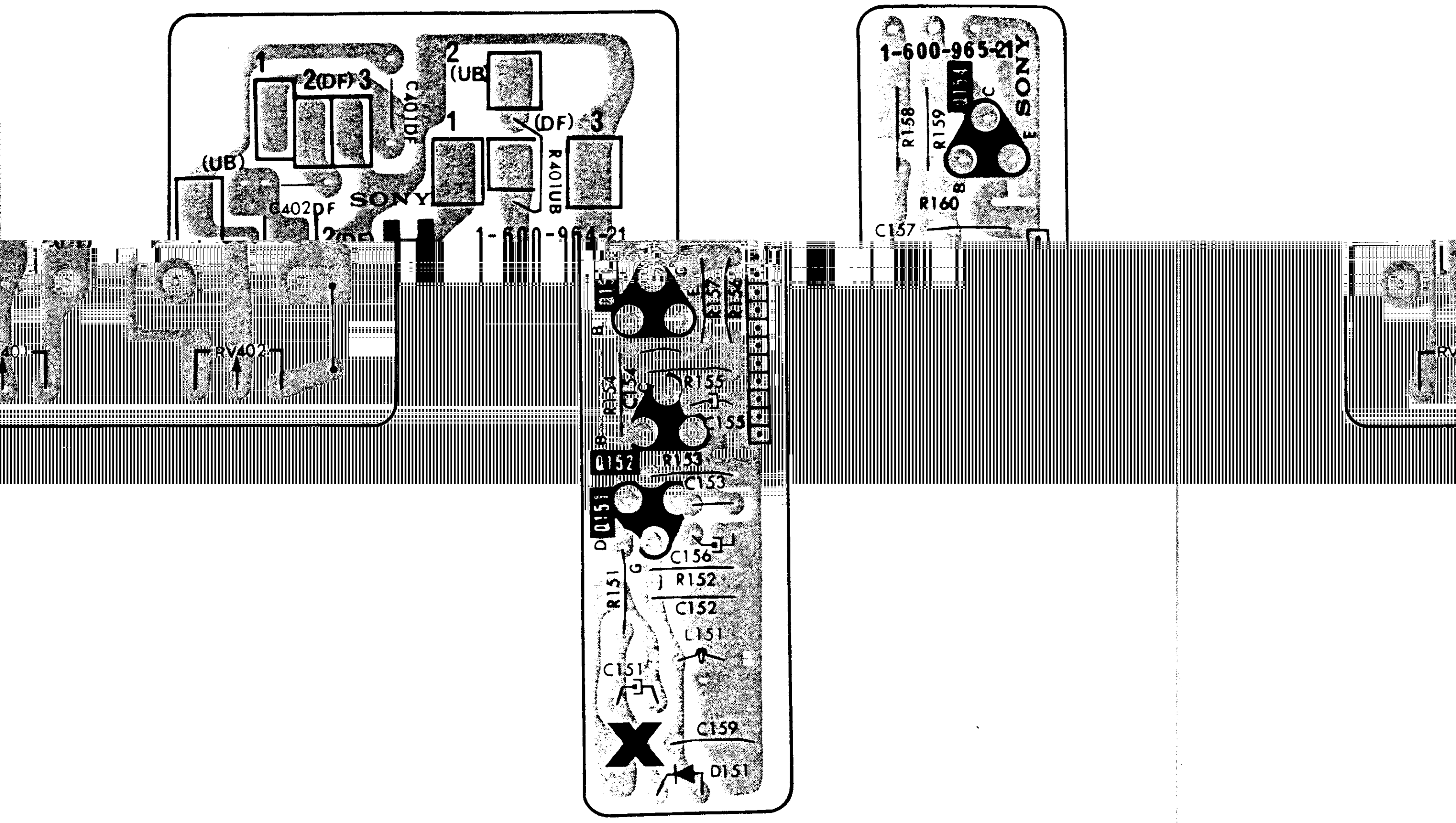
4


C
D
E
F
74
73
72
3
2
1
M-9
M2
CH SELECT
CH PRESET
STAND BY
AFT
REMOTE CONTROL
0.5mS
(32) 11Vp-p
4
3
2
(21)
(22)
1
2
IC001 SN29770AN
CH SELECT-1
R001
C003
2.2/50V
D005
μPC574J
33V REG
D005
R010
12k(2W)
C008
1/50V
IC003 M58485P
REMOTE CONTROL
RECEIVE
0V
Q002 FRB829
MUTE DRIVE
Q003 2SK23A
AFT MUTE
R050 100k
C023
2.2/50V
R014
1k
12V
12V
Q002
C009
3.3
50V
R013 22k
0V
R015
4.7k
0.05V
R017
470k
0V
S
6.3V
G
Q003
D
6.3V
R016
10k
R003 560k
S001
AFT

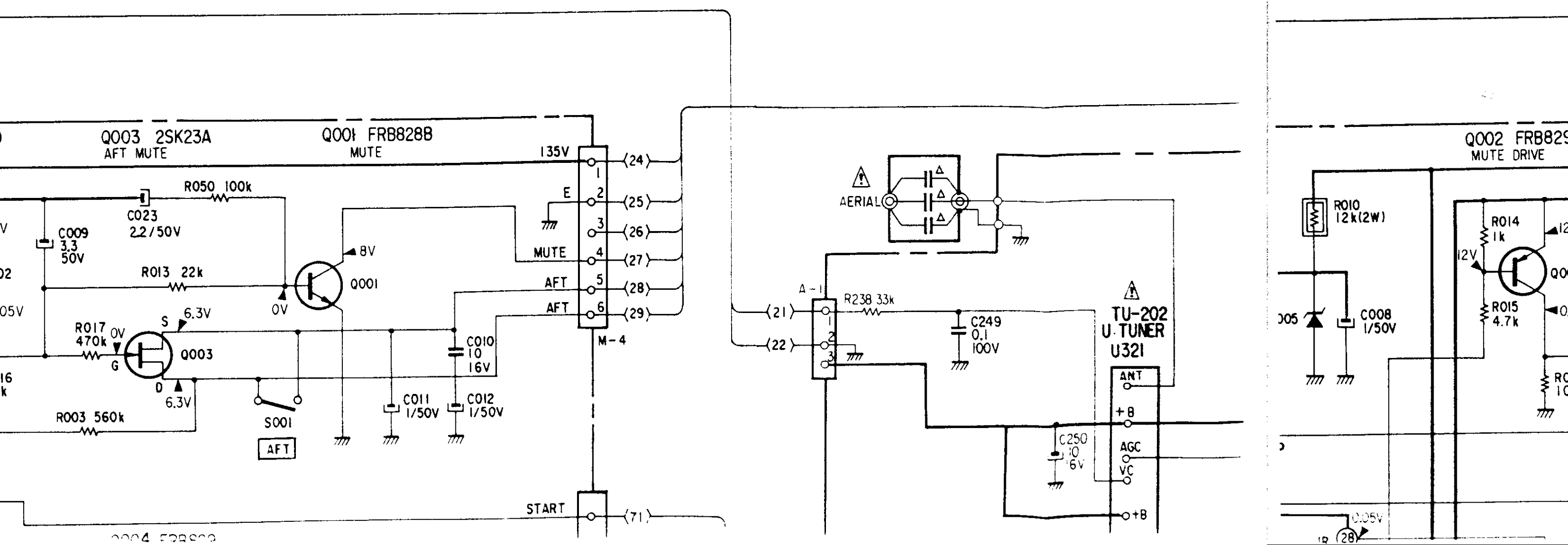
A B C D E

TOMER]
TROL]

X [AMP]

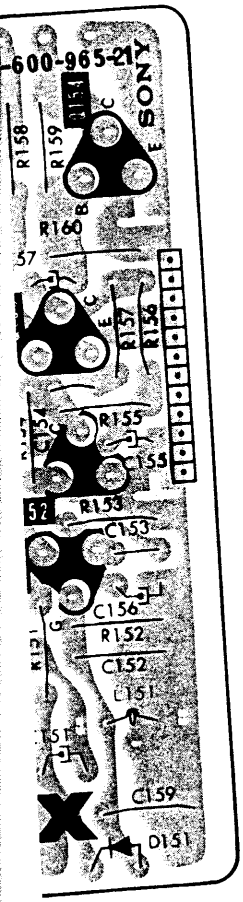

1
2(DF) 3
C401DF
2
(UB)
1
(DF) 3
R401UB
(UB)
C402DF
SONY
2(DF)
1-600-964-21
RV402
1-600-965-21
Q154
C
SONY
E
R158
R159
B
R160
C157
Q153
E
R157
R156
B
R154
C154
R155
C155
Q152
R153
C153
Q151
D
G
C156
R152
R151
C152
L151
C151
X
C159
D151

F G H I


Q003 2SK23A
AFT MUTE
Q001 FRB828B
MUTE
135V
E
MUTE
AFT
AFT
M-4
R050 100k
C023
2.2/50V
C009
3.3
50V
R013 22k
8V
Q001
0V
R017
470k
0V
G
S
6.3V
D
6.3V
Q003
R003 560k
S001
AFT
C010
10
16V
C011
1/50V
C012
1/50V
START
(24)
(25)
(26)
(27)
(28)
(29)
(71)
(21)
(22)
A-1
AERIAL
R238 33k
C249
0.1
100V
TU-202
U.TUNER
U321
ANT
+B
AGC
VC
+B
C250
10
6V
Q002 FRB829
MUTE DRIVE
R010
12k(2W)
R014
1k
12V
R015
4.7k
C008
1/50V
0.05V
(28)

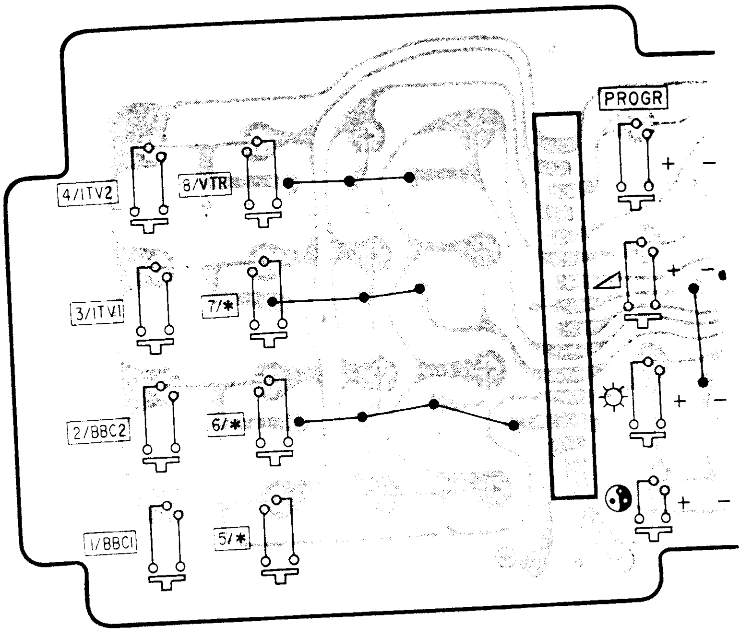
D E F G

IP]

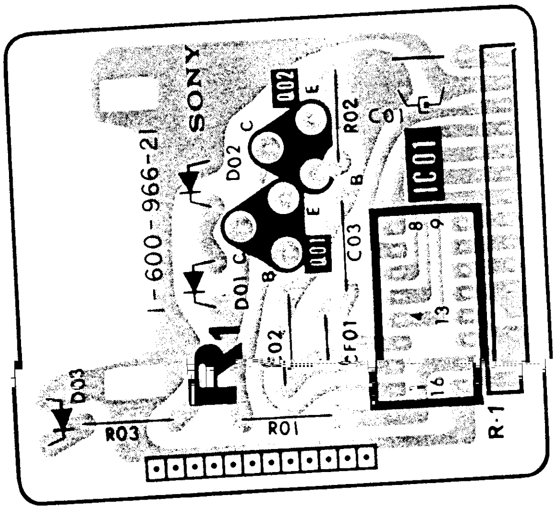


-600-965-21
SONY
R158
R159
R160
R157
R156
R155
C155
R153
C153
C156
R152
C152
L151
C159
D151

REMOTE COMMANDER RM-604B

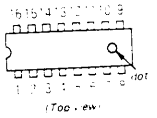


PROGR
4/ITV2
8/VTR
3/ITV1
7/*
2/BBC2
6/*
1/BBC1
5/*
+
-

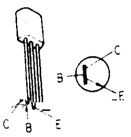


SONY
1-600-966-21
Q02
Q01
D02
D01
D03
R02
C01
IC01
C03
CF01
C02
R1
R03
R01
R-1
8
9
13
16

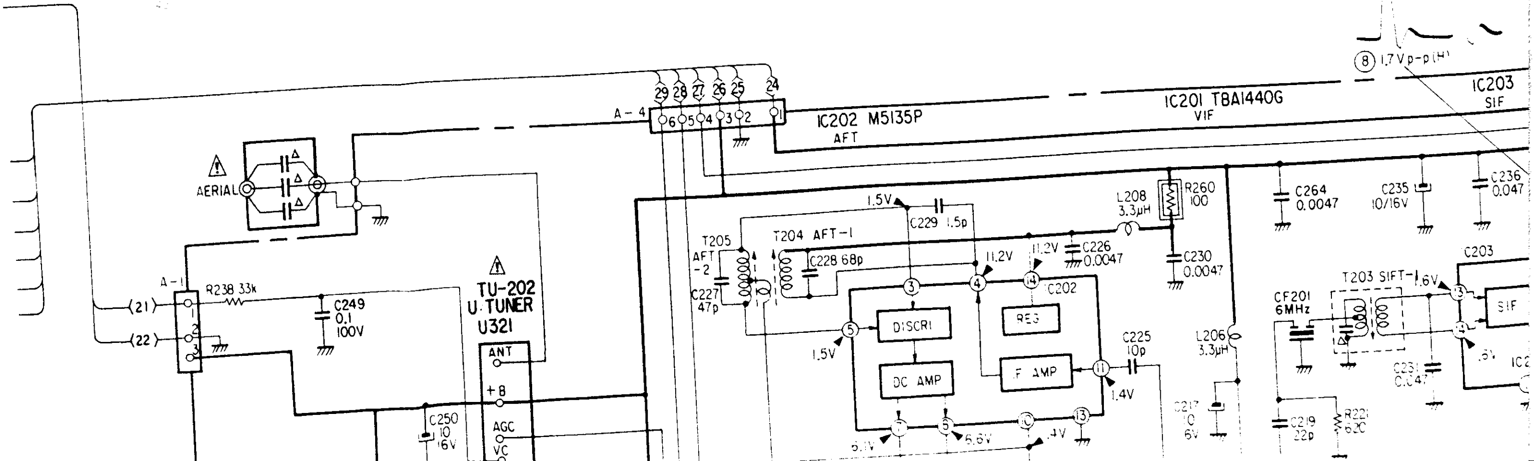
M58484P



FRB828B

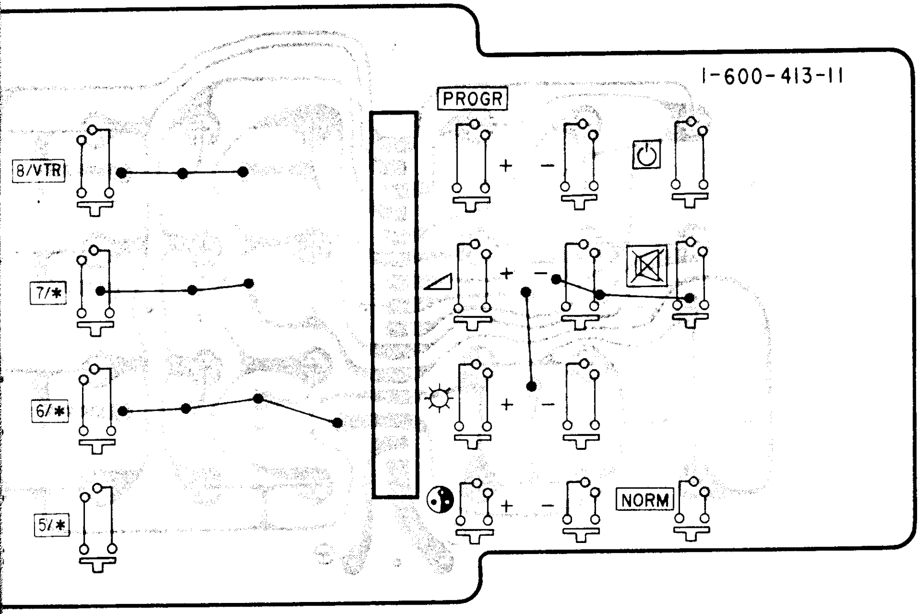


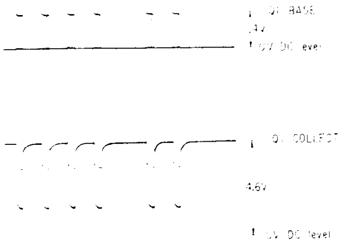
H I J K



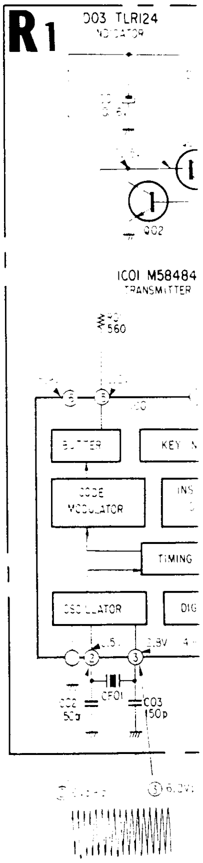
⑧ 1.7Vp-p(H)
IC202 M5135P
AFT
IC201 TBA1440G
VIF
IC203
SIF
A-4
AERIAL
A-1
R238 33k
C249 0.1 100V
TU-202 U-TUNER U321
ANT
+B
AGC
VC
C250 10 16V
T205 AFT-2
T204 AFT-1
C227 47p
C228 68p
C229 1.5p
1.5V
DISCRI
DC AMP
REG
F AMP
IC202
11.2V
C226 0.0047
L208 3.3μH
R260 100
C230 0.0047
C225 10p
L206 3.3μH
C264 0.0047
C235 10/16V
C236 0.047
C203
T203 SIFT-1
CF201 6MHz
C231 0.047
C219 22p
SIF
1.4V
5.6V

M-604B

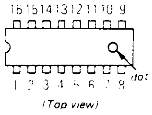

1-600-413-11
PROGR
8/VTR
7/✱
6/✱
5/✱
NORM
+
-



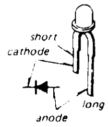
MODE PIN	⑨	⑩	[illegible]	⑫	⑬	⑭
CH-1	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-2	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-3	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-4	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-5	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-6	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-7	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-8 VTR	5.3	5.3	5.3	5.3	(4.8)	5.3
◑ +	(4.8)	5.3	5.3	5.3	5.3	5.3
-	(4.8)	5.3	5.3	5.3	5.3	5.3
◗ +	5.3	(4.8)	5.3	5.3	5.3	5.3
-	5.3	(4.8)	5.3	5.3	5.3	5.3
◢ +	5.3	5.3	(4.8)	5.3	5.3	5.3
-	5.3	(4.8)	5.3	5.3	5.3	5.3
PROGR +	5.3	5.3	5.3	5.3	(4.8)	5.3
-	5.3	5.3	5.3	(4.8)	5.3	5.3
NORM	5.3	(4.8)	5.3	5.3	5.3	5.3
⊠	5.3	(4.8)	5.3	5.3	5.3	5.3
	5.3	5.3	5.3	5.3	5.3	(4.8)

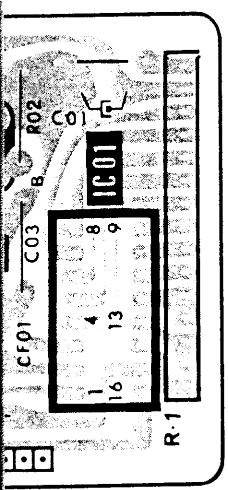

R1
D03 TLR124
Q02
IC01 M58484
TRANSMITTER
560
BUFFER
KEY
CODE MODULATOR
TIMING
OSCILLATOR
CF01
C02 50p
C03 150p
③ 6.2V

M58484P

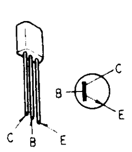

16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
dot
(Top view)

TLR124

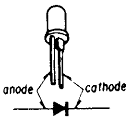

short
cathode
long
anode

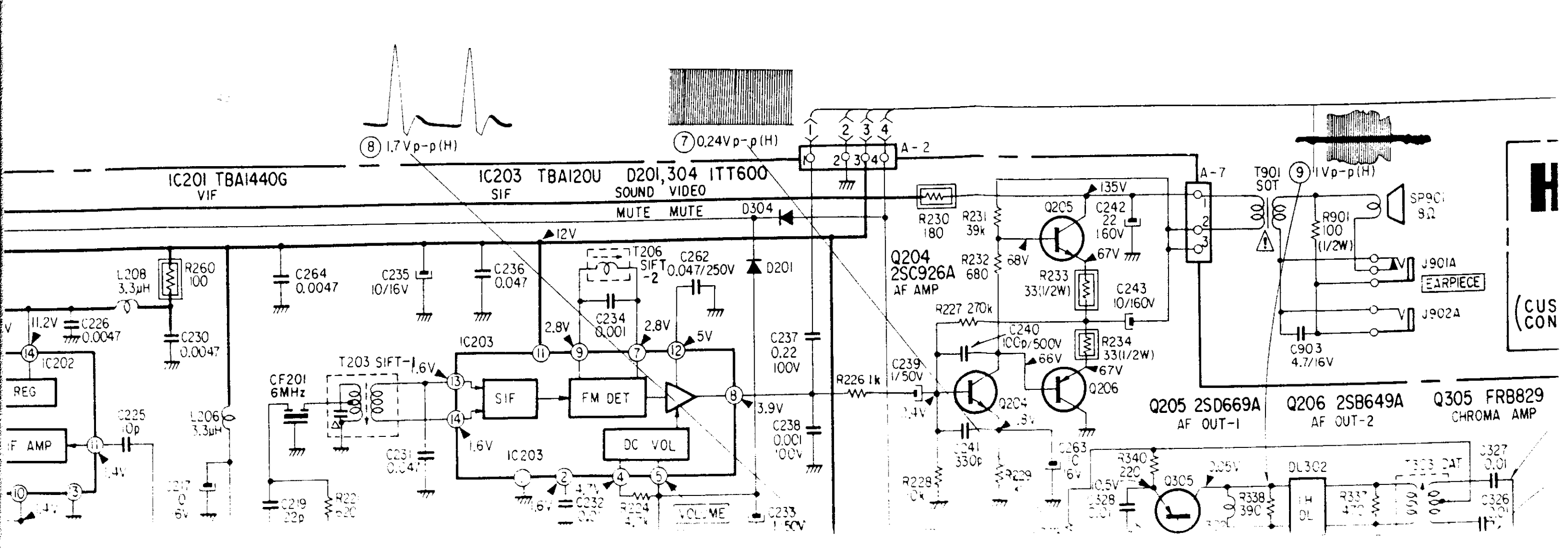

R02
C01
IC01
C03
CF01
R-1

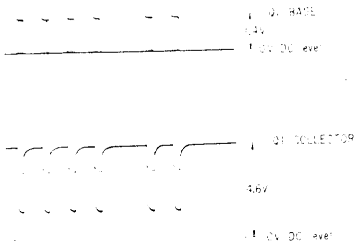
FRB828B



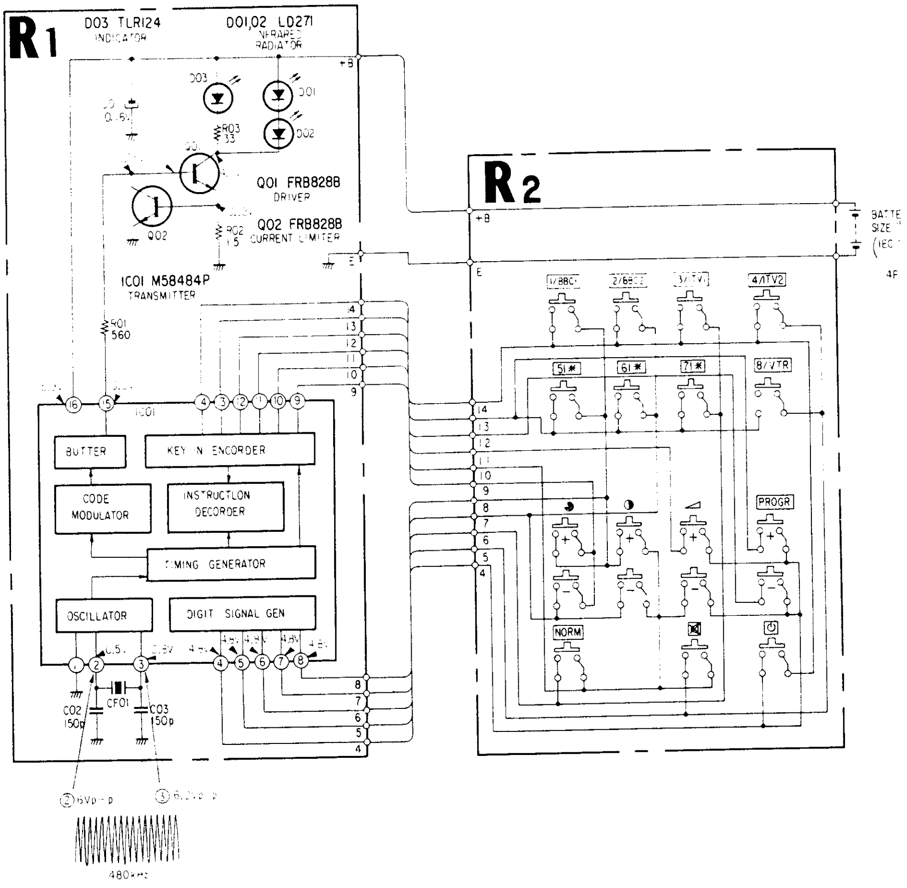
LD271

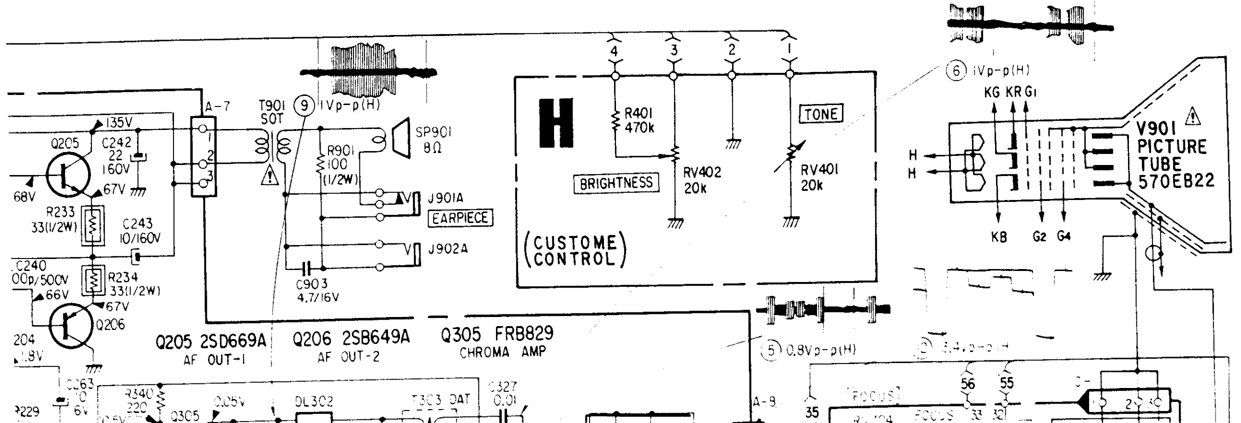

anode
cathode


⑧ 1.7Vp-p(H)
⑦ 0.24Vp-p(H)
⑨ 1Vp-p(H)
IC201 TBA1440G VIF
IC203 TBA120U SIF
D201,304 ITT600 SOUND MUTE VIDEO MUTE
A-2
A-7
T901 SOT
SP901 8Ω
R901 100 (1/2W)
J901A EARPIECE
J902A
C903 4.7/16V
Q204 2SC926A AF AMP
Q205 2SD669A AF OUT-1
Q206 2SB649A AF OUT-2
Q305 FRB829 CHROMA AMP
T206 SIFT-2
T203 SIFT-1
CF201 6MHz
SIF
FM DET
DC VOL
VOLUME
D304
D201
12V
135V
68V
67V
66V
R230 180
R231 39k
R232 680
R233 33(1/2W)
R234 33(1/2W)
C242 22 160V
C243 10/160V
C240 100p/500V
R227 270k
R226 1k
C239 1/50V
C237 0.22 100V
C238 0.001 100V
C262 0.047/250V
C234 0.001
C236 0.047
C235 10/16V
C264 0.0047
L208 3.3μH
R260 100
C226 0.0047
C230 0.0047
IC202
REG
IF AMP
L206 3.3μH
C225 10p
DL302
R340 220
R338 390
C327 0.01

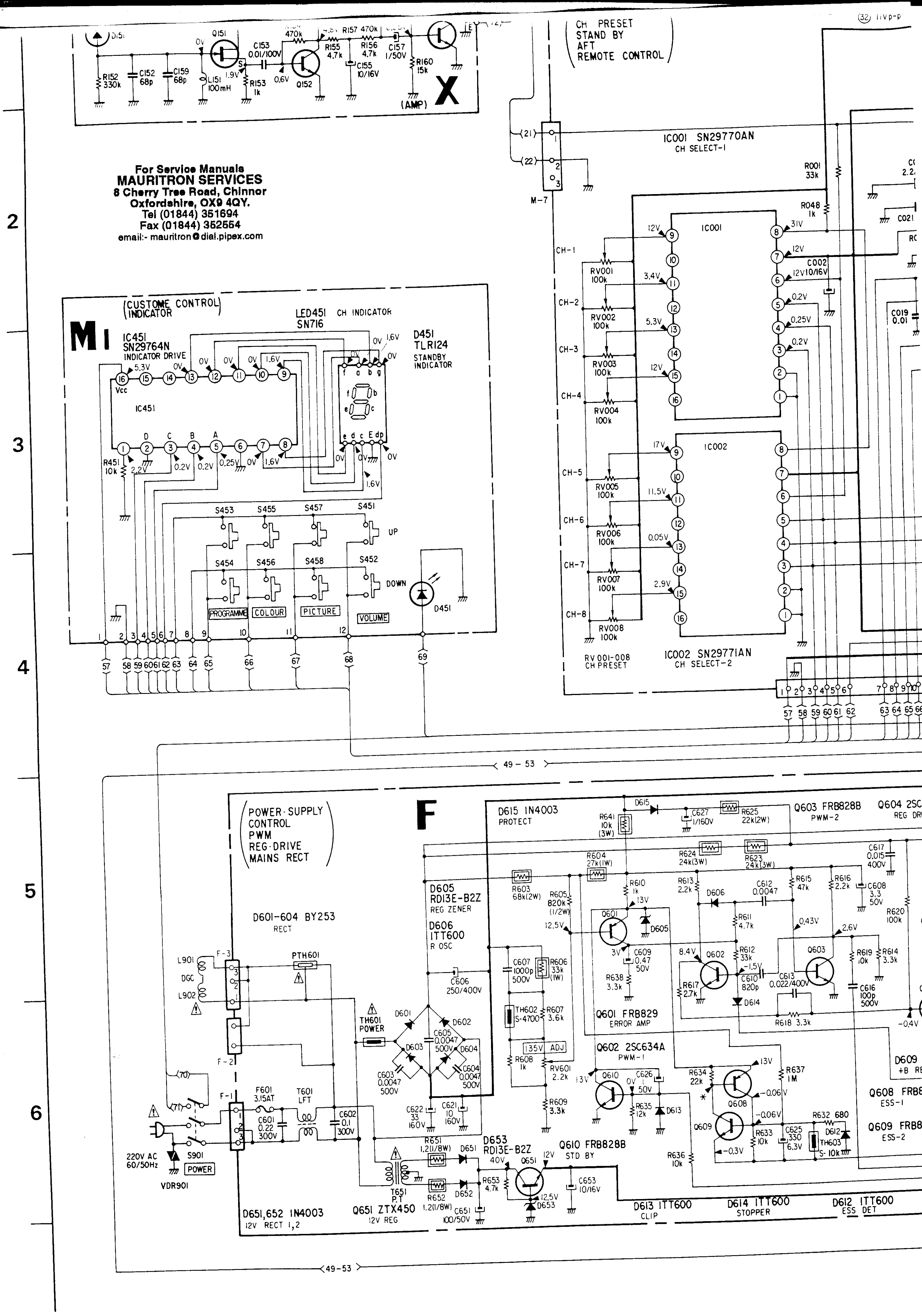

Q1 BASE
4.4V
0V DC level
Q1 COLLECTOR
4.6V
0V DC level

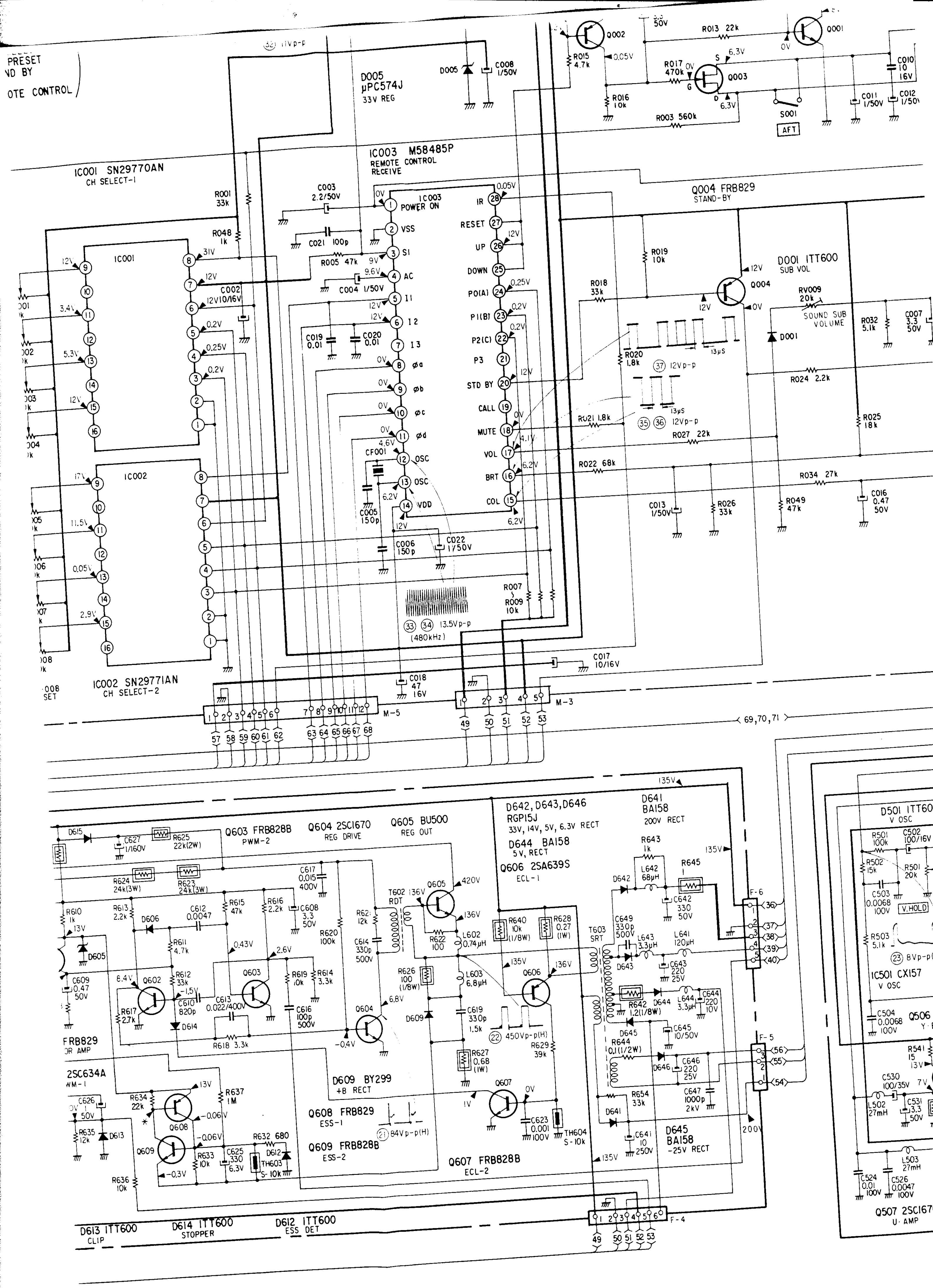
MODE \ PIN	⑨	⑩	⑪	⑫	⑬	⑭
CH-1	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-2	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-3	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-4	5.3	5.3	5.3	5.3	5.3	(4.8)
CH-5	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-6	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-7	5.3	5.3	5.3	5.3	(4.8)	5.3
CH-8/VTR	5.3	5.3	5.3	5.3	(4.8)	5.3
◕ +	(4.8)	5.3	5.3	5.3	5.3	5.3
−	(4.8)	5.3	5.3	5.3	5.3	5.3
◑ +	5.3	(4.8)	5.3	5.3	5.3	5.3
−	5.3	(4.8)	5.3	5.3	5.3	5.3
◢ +	5.3	5.3	(4.8)	5.3	5.3	5.3
−	5.3	(4.8)	5.3	5.3	5.3	5.3
PROGR +	5.3	5.3	5.3	5.3	(4.8)	5.3
−	5.3	5.3	5.3	(4.8)	5.3	5.3
NORM	5.3	(4.8)	5.3	5.3	5.3	5.3
⊠	5.3	(4.8)	5.3	5.3	5.3	5.3
⏻	5.3	5.3	5.3	5.3	5.3	(4.8)

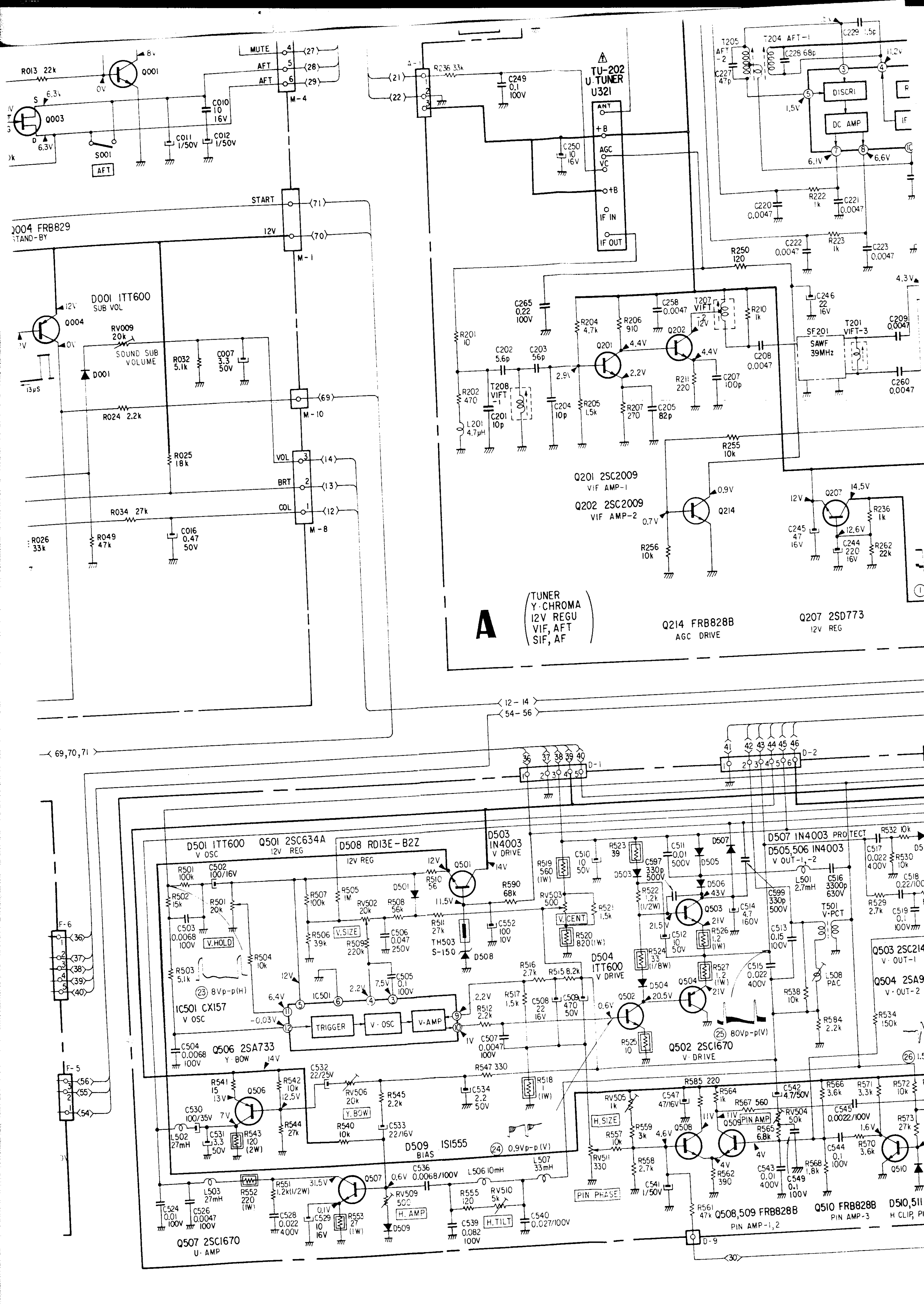

I
J
K
L
M
1
2
3
4
R1
D03 TLR124
INDICATOR
D01,02 LD271
INFRARED
RADIATOR
+B
D03
D01
D02
R03
33
Q01 FRB828B
DRIVER
Q02 FRB828B
CURRENT LIMITER
Q02
R02
1.5
E
IC01 M58484P
TRANSMITTER
R01
560
IC01
BUTTER
KEY IN ENCORDER
CODE
MODULATOR
INSTRUCTLON
DECORDER
TIMING GENERATOR
OSCILLATOR
DIGIT SIGNAL GEN
4.8V
CF01
C02
150p
C03
150p
② 6Vp-p
480kHz
R2
+B
E
BATTE
SIZE
(IEC
4F
1/BBC1
2/BBC2
3/ITV1
4/ITV2
5I*
6I*
7I*
8/VTR
PROGR
NORM
+
−

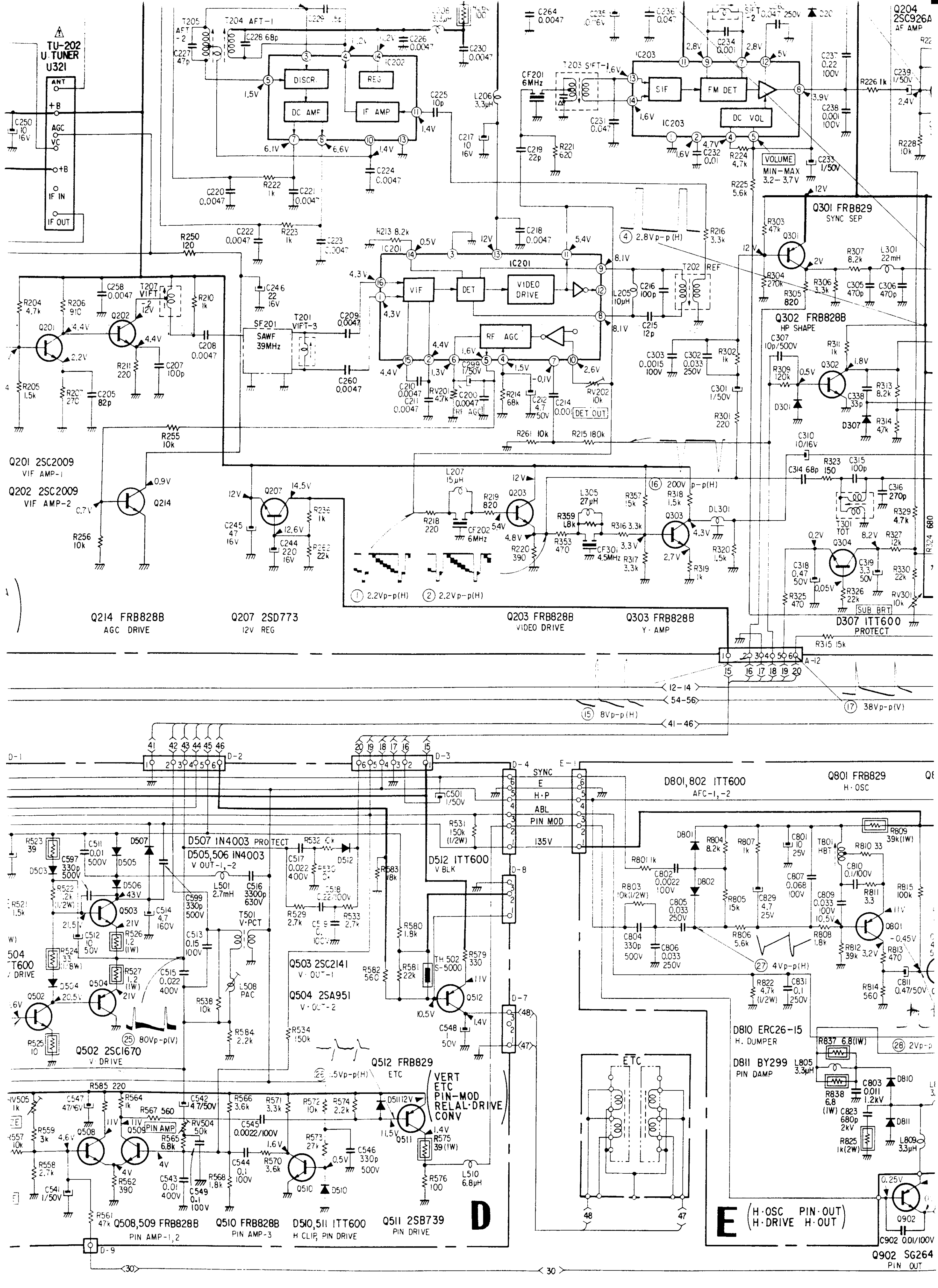

N
O
P
Q
1
Q205
135V
C242
22
160V
68V
67V
R233
33(1/2W)
C243
10/160V
C240
00p/500V
66V
R234
33(1/2W)
67V
Q206
A-7
T901
SOT
⑨ 1Vp-p(H)
SP901
8Ω
R901
100
(1/2W)
J901A
EARPIECE
J902A
C903
4.7/16V
Q205 2SD669A
AF OUT-1
Q206 2SB649A
AF OUT-2
Q305 FRB829
CHROMA AMP
C263
10
6V
R229
R340
220
Q305
0.05V
DL302
T303 DAT
C327
0.01
A-8
35
H
4
3
2
1
R401
470k
BRIGHTNESS
RV402
20k
TONE
RV401
20k
(CUSTOME CONTROL)
⑤ 0.8Vp-p(H)
⑥ 1Vp-p(H)
KG KR G1
H
H
KB
G2
G4
V901
PICTURE
TUBE
570EB22
FOCUS
56
55
33
32

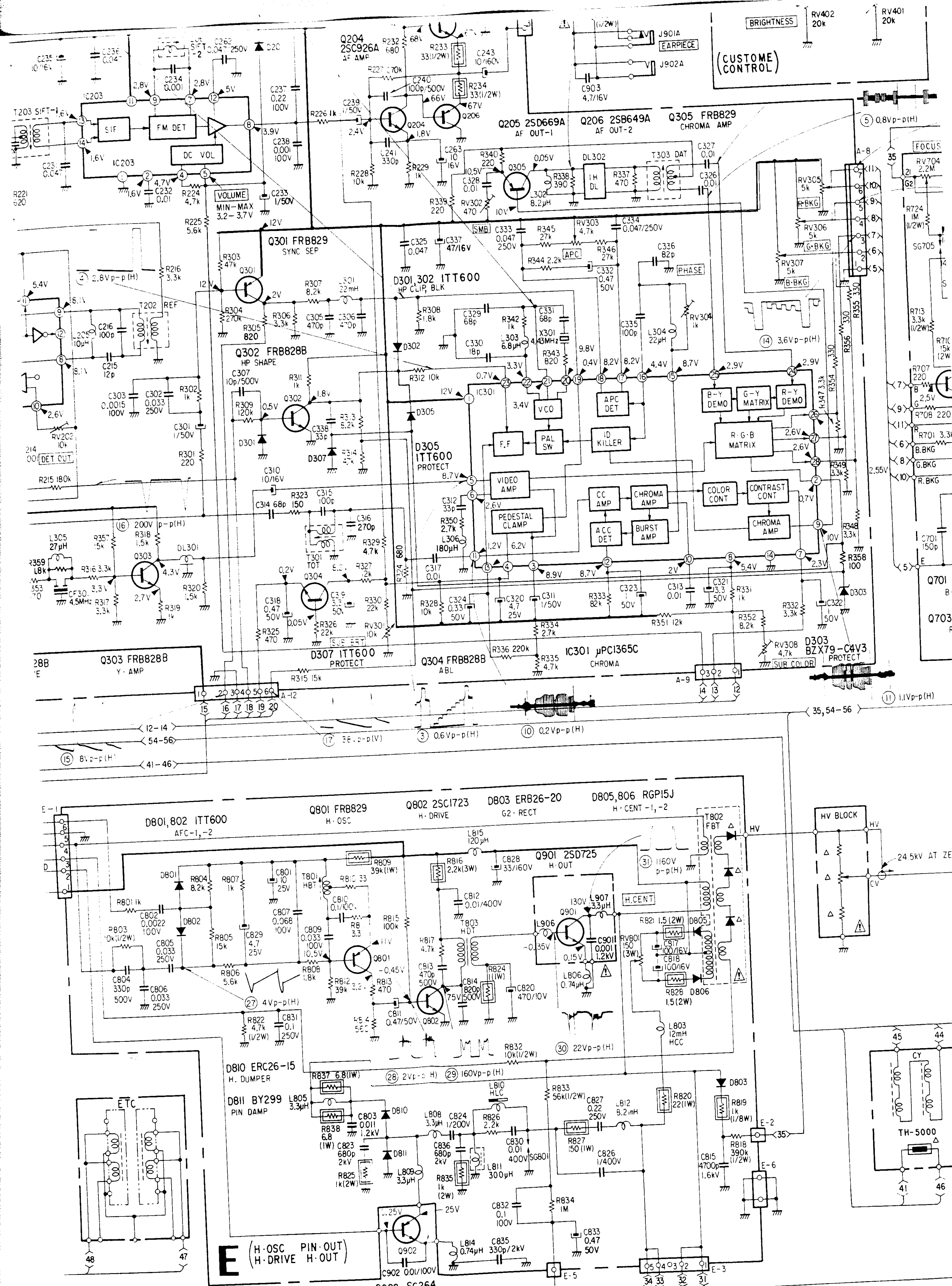
For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- mauritron@dial.pipex.com


X
(AMP)
Q151
Q152
R152 330k
C152 68p
C159 68p
L151 100mH
R153 1k
C153 0.01/100V
R155 4.7k
R156 4.7k
R157 470k
C155 10/16V
C157 1/50V
R160 15k
CH PRESET
STAND BY
AFT
REMOTE CONTROL
IC001 SN29770AN
CH SELECT-1
M-7
R001 33k
R048 1k
C002 10/16V
CH-1
CH-2
CH-3
CH-4
CH-5
CH-6
CH-7
CH-8
RV001 100k
RV002 100k
RV003 100k
RV004 100k
RV005 100k
RV006 100k
RV007 100k
RV008 100k
IC001
IC002
RV 001-008
CH PRESET
IC002 SN29771AN
CH SELECT-2
C019 0.01
C021
M1
(CUSTOME CONTROL INDICATOR)
IC451
SN29764N
INDICATOR DRIVE
LED451
SN716
CH INDICATOR
D451
TLR124
STANDBY INDICATOR
Vcc
R451 10k
S453
S455
S457
S451
UP
S454
S456
S458
S452
DOWN
PROGRAMME
COLOUR
PICTURE
VOLUME
D451
49 - 53
F
(POWER SUPPLY CONTROL PWM REG DRIVE MAINS RECT)
D601-604 BY253
RECT
D605
RD13E-B2Z
REG ZENER
D606
ITT600
R OSC
D615 1N4003
PROTECT
R641 10k (3W)
C627 1/160V
R625 22k(2W)
Q603 FRB828B
PWM-2
Q604 2SC
REG DR
R604 27k(1W)
R624 24k(3W)
R623 24k(3W)
C617 0.015 400V
R603 68k(2W)
R605 820k (1/2W)
R610 1k
R613 2.2k
D606
C612 0.0047
R615 47k
R616 2.2k
C608 3.3 50V
R620 100k
Q601
D605
R611 4.7k
Q602
Q603
C609 0.47 50V
R638 3.3k
R617 2.7k
R612 33k
C610 820p
C613 0.022/400V
D614
R618 3.3k
R619 10k
R614 3.3k
C616 100p 500V
C607 1000p 500V
R606 33k (1W)
C606 250/400V
TH602 S-4700
R607 3.6k
135V ADJ
R608 1k
RV601 2.2k
R609 3.3k
Q601 FRB829
ERROR AMP
Q602 2SC634A
PWM-1
Q610
C626 50V
R635 12k
D613
R634 22k
R637 1M
Q608
Q609
R633 10k
C625 330 6.3V
R632 680
D612
TH603 S-10k
R636 10k
D609 +B RE
Q608 FRB8
ESS-1
Q609 FRB8
ESS-2
L901
DGC
L902
F-3
F-2
F-1
PTH601
TH601 POWER
D601
D602
D603
D604
C605 0.0047 500V
C603 0.0047 500V
C604 0.0047 500V
C622 33 160V
C621 10 160V
F601 3.15AT
T601 LFT
C601 0.22 300V
C602 0.1 300V
220V AC 60/50Hz
S901
POWER
VDR901
R651 1.2(1/8W)
D651
D652
R652 1.2(1/8W)
T651 P.T
D653
RD13E-B2Z
Q651
R653 4.7k
C651 100/50V
C653 10/16V
Q610 FRB828B
STD BY
D651,652 1N4003
12V RECT 1,2
Q651 ZTX450
12V REG
D613 ITT600
CLIP
D614 ITT600
STOPPER
D612 ITT600
ESS DET
2
3
4
5
6


PRESET
ND BY
OTE CONTROL
(32) 11Vp-p
D005
μPC574J
33V REG
D005
C008 1/50V
Q002
R015 4.7k
0.05V
R016 10k
R013 22k
R017 470k
0V
S
G
D
Q003
6.3V
6.3V
R003 560k
Q001
0V
S001
AFT
C010 10 16V
C011 1/50V
C012 1/50V
50V
IC001 SN29770AN
CH SELECT-1
IC003 M58485P
REMOTE CONTROL
RECEIVE
R001 33k
C003 2.2/50V
IC003
0V
POWER ON
VSS
S1
AC
I1
I2
I3
φa
φb
φc
φd
OSC
OSC
VDD
IR
RESET
UP
DOWN
PO(A)
P1(B)
P2(C)
P3
STD BY
CALL
MUTE
VOL
BRT
COL
0.05V
12V
0.25V
0.2V
0.2V
12V
0V
4.1V
6.2V
6.2V
C021 100p
R005 47k
9V
9.6V
C004 1/50V
12V
12V
C019 0.01
C020 0.01
0V
0V
0V
0V
4.6V
CF001
C005 150p
6.2V
12V
C006 150p
C022 1/50V
R048 1k
IC001
31V
12V
C002 12V 10/16V
0.2V
0.25V
0.2V
12V
3.4V
5.3V
12V
IC002
17V
11.5V
0.05V
2.9V
IC002 SN29771AN
CH SELECT-2
008 SET
R007 ~ R009 10k
(33) (34) 13.5Vp-p (480kHz)
Q004 FRB829
STAND-BY
R019 10k
R018 33k
Q004
12V
12V
0V
R020 1.8k
(37) 12Vp-p
13μs
13μs
(35) (36) 12Vp-p
R021 1.8k
R027 22k
R022 68k
C013 1/50V
R026 33k
D001 ITT600
SUB VOL
RV009 20k
SOUND SUB VOLUME
D001
R032 5.1k
C007 3.3 50V
R024 2.2k
R025 18k
R034 27k
R049 47k
C016 0.47 50V
C017 10/16V
C018 47 16V
M-5
M-3
57 58 59 60 61 62
63 64 65 66 67 68
49 50 51 52 53
69, 70, 71
135V
D615
C627 1/160V
R625 22k (2W)
Q603 FRB828B
PWM-2
Q604 2SC1670
REG DRIVE
Q605 BU500
REG OUT
D642, D643, D646
RGP15J
33V, 14V, 5V, 6.3V RECT
D644 BA158
5V, RECT
Q606 2SA639S
ECL-1
D641
BA158
200V RECT
R624 24k (3W)
R623 24k (3W)
C617 0.015 400V
R610 1k
13V
R613 2.2k
D606
C612 0.0047
R615 47k
R616 2.2k
C608 3.3 50V
R620 100k
R621 12k
T602 RDT
136V
Q605
420V
136V
R622 100
L602 0.74μH
C614 330p 500V
R611 4.7k
D605
0.43V
2.6V
R612 33k
-1.5V
C610 820p
C613 0.022/400V
Q602
Q603
8.4V
R617 2.7k
C609 0.47 50V
D614
R619 10k
R614 3.3k
C616 100p 500V
R618 3.3k
Q604
-0.4V
6.8V
R626 100 (1/8W)
D609
L603 6.8μH
C619 330p 1.5k
R640 10k (1/8W)
R628 0.27 (1W)
135V
Q606
136V
(22) 450Vp-p(H)
R629 39k
R627 0.68 (1W)
FRB829
OR AMP
2SC634A
WM-1
D609 BY299
+B RECT
Q607
0V
1V
C623 0.001 100V
TH604 S-10k
C626 1 50V
0V
R634 22k
13V
R637 1M
Q608
-0.06V
-0.06V
R635 12k
D613
Q609
R633 10k
C625 330 6.3V
R632 680
D612
TH603 S-10k
-0.3V
R636 10k
Q608 FRB829
ESS-1
(21) 84Vp-p(H)
Q609 FRB828B
ESS-2
Q607 FRB828B
ECL-2
R643 1k
D642
L642 68μH
R645 1
135V
C642 330 50V
T603 SRT
C649 330p 500V
L643 3.3μH
L641 120μH
D643
C643 220 25V
R642 1.2 (1/8W)
D644
L644 3.3μH
C644 220 10V
D645
C645 10/50V
R644 0.1 (1/2W)
D646
C646 220 25V
R654 33k
C647 1000p 2kV
D641
C641 10 250V
135V
D645
BA158
-25V RECT
200V
F-6
F-5
F-4
36 37 38 39 40
56 55 54
49 50 51 52 53
D613 ITT600
CLIP
D614 ITT600
STOPPER
D612 ITT600
ESS DET
D501 ITT600
V OSC
R501 100k
C502 100/16V
R502 15k
R501 20k
C503 0.0068 100V
V.HOLD
R503 5.1k
(23) 8Vp-p
IC501 CX157
V OSC
C504 0.0068 100V
Q506
R541 15
13V
C530 100/35V
7V
L502 27mH
C531 3.3 50V
L503 27mH
C524 0.01 100V
C526 0.0047 100V
Q507 2SC1670
U·AMP


R013 22k
Q001
8V
0V
6.3V
Q003
S
D
6.3V
C010 10 16V
C011 1/50V
C012 1/50V
S001
AFT
MUTE
AFT
AFT
(27)
(28)
(29)
M-4
(21)
(22)
A-1
R236 33k
C249 0.1 100V
TU-202
U TUNER
U321
ANT
+B
AGC
VC
+B
IF IN
IF OUT
C250 10 16V
START
(71)
12V
(70)
M-1
Q004 FRB829
STAND-BY
D001 ITT600
SUB VOL
Q004
12V
0V
RV009 20k
SOUND SUB VOLUME
R032 5.1k
C007 3.3 50V
D001
13μS
(69)
M-10
R024 2.2k
R025 18k
VOL
BRT
COL
(14)
(13)
(12)
M-8
R034 27k
C016 0.47 50V
R026 33k
R049 47k
T205 AFT -2
C227 47p
T204 AFT-1
C228 68p
C229 1.5p
11.2V
DISCRI
DC AMP
IF
1.5V
6.1V
6.6V
R222 1k
C220 0.0047
C221 0.0047
C222 0.0047
R223 1k
C223 0.0047
R250 120
4.3V
C265 0.22 100V
R204 4.7k
R206 910
C258 0.0047
T207 VIFT -2
R210 1k
12V
C246 22 16V
T201 VIFT-3
C209 0.0047
SF201 SAWF 39MHz
C260 0.0047
R201 10
C202 5.6p
C203 56p
Q201
4.4V
Q202
4.4V
2.9V
2.2V
C208 0.0047
C207 100p
R211 220
R202 470
T208 VIFT -1
C201 10p
C204 10p
R205 1.5k
R207 270
C205 82p
L201 4.7μH
R255 10k
0.9V
Q214
0.7V
R256 10k
Q201 2SC2009
VIF AMP-1
Q202 2SC2009
VIF AMP-2
12V
Q207
14.5V
R236 1k
C245 47 16V
12.6V
C244 220 16V
R262 22k
A
TUNER
Y CHROMA
12V REGU
VIF, AFT
SIF, AF
Q214 FRB828B
AGC DRIVE
Q207 2SD773
12V REG
(12-14)
(54-56)
(69,70,71)
36 37 38 39 40
D-1
41 42 43 44 45 46
D-2
F-6
(36) (37) (38) (39) (40)
F-5
(56) (55) (54)
D501 ITT600
V OSC
Q501 2SC634A
12V REG
D508 RD13E-B2Z
12V REG
D503 IN4003
V DRIVE
R501 100k
C502 100/16V
R502 15k
R501 20k
C503 0.0068 100V
V.HOLD
R503 5.1k
R504 10k
(23) 8Vp-p(H)
IC501 CX157
V OSC
R507 100k
R505 1M
R506 39k
V.SIZE
RV502 20k
R509 220k
R508 56k
C506 0.047 250V
C505 0.1 100V
D501
R510 56
12V
Q501
14V
11.5V
R511 27k
TH503 S-150
D508
R590 68k
C552 100 10V
6.4V
12V
2.2V
7.5V
IC501
TRIGGER
V-OSC
V-AMP
-0.03V
2.2V
1V
R512 2.2k
R517 1.5k
C508 22 16V
C509 470 50V
C507 0.0047 100V
R516 2.7k
R515 8.2k
D504 ITT600
V DRIVE
C504 0.0068 100V
Q506 2SA733
Y BOW
14V
R541 15
R542 10k
13V
12.5V
7V
Q506
C530 100/35V
C531 3.3 50V
R543 120 (2W)
R544 27k
L502 27mH
C532 22/25V
RV506 20k
Y.BOW
R540 10k
R545 2.2k
C533 22/16V
R547 330
C534 2.2 50V
R518 1 (1W)
D509 1S1555
BIAS
(24) 0.9Vp-p(V)
R519 560 (1W)
C510 10 50V
RV503 500
V.CENT
R521 1.5k
R520 820(1W)
R523 39
D503
C597 330p 500V
C511 0.01 500V
D505
D507
D506 43V
R522 1.2k (1/2W)
21.5V
C512 10 50V
Q503
21V
C514 4.7 160V
R526 1.2 (1W)
R524 33 (1/8W)
R527 1.2 (1W)
D504
20.5V
Q504
21V
0.6V
Q502
R525 10
Q502 2SC1670
V DRIVE
(25) 80Vp-p(V)
C515 0.022 400V
D507 IN4003 PROTECT
D505,506 IN4003
V OUT-1,-2
L501 2.7mH
C516 3300p 630V
C599 330p 500V
C513 0.15 100V
T501 V-PCT
L508 PAC
R538 10k
R584 2.2k
C517 0.022 400V
R530 10k
R532 10k
C518 0.22/100
R529 2.7k
C519 0.1 100V
Q503 2SC214
V OUT-1
Q504 2SA9
V OUT-2
R534 150k
(26)
RV505 1k
H.SIZE
C547 47/16V
R585 220
R564 1k
R567 560
PIN AMP
11V
11V
Q509
Q508
4.6V
R559 3k
R557 10k
RV511 330
PIN PHASE
R558 2.7k
C541 1/50V
R561 47k
4V
R562 390
C542 4.7/50V
RV504 50k
R565 6.8k
4V
C543 0.01 400V
C549 0.1 100V
R568 1.8k
R566 3.6k
C545 0.0022/100V
R571 3.3k
R572 10k
1.6V
R573 27k
C544 0.1 100V
R570 3.6k
Q510
Q508,509 FRB828B
PIN AMP-1,2
Q510 FRB828B
PIN AMP-3
D510,511
H CLIP
D-9
(30)
C524 0.01 100V
L503 27mH
C526 0.0047 100V
R552 220 (1W)
R551 1.2k(1/2W)
C528 0.022 400V
31.5V
0.1V
C529 10 16V
R553 27 (1W)
Q507
0.6V
RV509 500
H.AMP
D509
C536 0.0068/100V
L506 10mH
R555 120
RV510 5k
H.TILT
C539 0.082 100V
C540 0.027/100V
L507 33mH
Q507 2SC1670
V AMP


TU-202 U TUNER U321
ANT
+B
AGC
VC
IF IN
IF OUT
T205 AFT-2
T204 AFT-1
IC202
DISCR.
REG
DC AMP
IF AMP
CF201 6MHz
T203 SIFT-1
SIFT-2
IC203
SIF
FM DET
DC VOL
VOLUME MIN-MAX 3.2-3.7V
Q204 2SC926A AF AMP
IC201
VIF
DET
VIDEO DRIVE
RF AGC
T202 REF
T207 VIFT-2
SF201 SAWF 39MHz
T201 VIFT-3
Q201 2SC2009 VIF AMP-1
Q202 2SC2009 VIF AMP-2
Q214 FRB828B AGC DRIVE
Q207 2SD773 12V REG
Q203 FRB828B VIDEO DRIVE
Q303 FRB828B Y·AMP
Q301 FRB829 SYNC SEP
Q302 FRB828B HP SHAPE
D307 ITT600 PROTECT
Q304
SUB BRT
T301 TOT
DL301
CF202 6MHz
CF301 4.5MHz
DET OUT
RF AGC
① 2.2Vp-p(H)
② 2.2Vp-p(H)
④ 2.8Vp-p(H)
⑯ 200Vp-p(H)
⑮ 8Vp-p(H)
⑰ 38Vp-p(V)
A-12
12-14
54-56
41-46
D-1
D-2
D-3
D-4
D-7
D-8
D-9
E-1
SYNC
E
H·P
ABL
PIN MOD
135V
D801,802 ITT600 AFC-1,-2
Q801 FRB829 H·OSC
T801 HBT
D507 1N4003 PROTECT
D505,506 1N4003 V OUT-1,-2
D512 ITT600 V BLK
T501 V·PCT
L508 PAC
TH502 S-5000
Q503 2SC2141 V·OUT-1
Q504 2SA951 V·OUT-2
Q502 2SC1670 V DRIVE
㉕ 80Vp-p(V)
Q512 FRB829 ETC
VERT ETC PIN-MOD RELAL·DRIVE CONV
PIN AMP
Q508,509 FRB828B PIN AMP-1,2
Q510 FRB828B PIN AMP-3
D510,511 ITT600 H CLIP, PIN DRIVE
Q511 2SB739 PIN DRIVE
D
ETC
48
47
D810 ERC26-15 H. DUMPER
D811 BY299 PIN DAMP
㉗ 4Vp-p(H)
㉘ 2Vp-p
E
H·OSC PIN·OUT
H·DRIVE H·OUT
Q902 SG264 PIN OUT
C902 0.01/100V
30


IC203
SIF
FM DET
DC VOL
VOLUME
MIN-MAX 3.2-3.7V
T203 SIFT-1
Q204 2SC926A AF AMP
Q205 2SD669A AF OUT-1
Q206 2SB649A AF OUT-2
Q305 FRB829 CHROMA AMP
J901A EARPIECE
J902A
BRIGHTNESS
RV402 20k
RV401 20k
(CUSTOME CONTROL)
FOCUS
DL302 1H DL
T303 DAT
R-BKG
G-BKG
B-BKG
RV305 5k
RV306 5k
RV307 5k
Q301 FRB829 SYNC SEP
D301,302 ITT600 HP CLIP, BLK
Q302 FRB828B HP SHAPE
T202 REF
DET OUT
APC
PHASE
X301 4.43MHz
VCO
APC DET
F.F
PAL SW
ID KILLER
B-Y DEMO
G-Y MATRIX
R-Y DEMO
R·G·B MATRIX
VIDEO AMP
PEDESTAL CLAMP
CC AMP
CHROMA AMP
ACC DET
BURST AMP
COLOR CONT
CONTRAST CONT
CHROMA AMP
IC301
D305 ITT600 PROTECT
D307 ITT600 PROTECT
Q303 FRB828B Y·AMP
Q304 FRB828B ABL
IC301 µPC1365C CHROMA
D303 BZX79-C4V3 PROTECT
SUB ERT
SUB COLOR
T301 TOT
DL301
CF301 4.5MHz
A-8
A-9
A-12
12-14
54-56
41-46
35,54-56
D801,802 ITT600 AFC-1,-2
Q801 FRB829 H·OSC
Q802 2SC1723 H·DRIVE
D803 ERB26-20 G2·RECT
D805,806 RGP15J H·CENT -1,-2
Q901 2SD725 H·OUT
T801 HBT
T802 FBT
T803 HDT
H.CENT
HV
HV BLOCK
24.5kV AT ZE
CV
D810 ERC26-15 H. DUMPER
D811 BY299 PIN DAMP
L810 HLC
L803 12mH HCC
Q902 SG264 PIN OUT
ETC
CY
TH-5000
E (H·OSC PIN·OUT H·DRIVE H·OUT)
E-1
E-2
E-3
E-5
E-6
Q701
Q703
SG705

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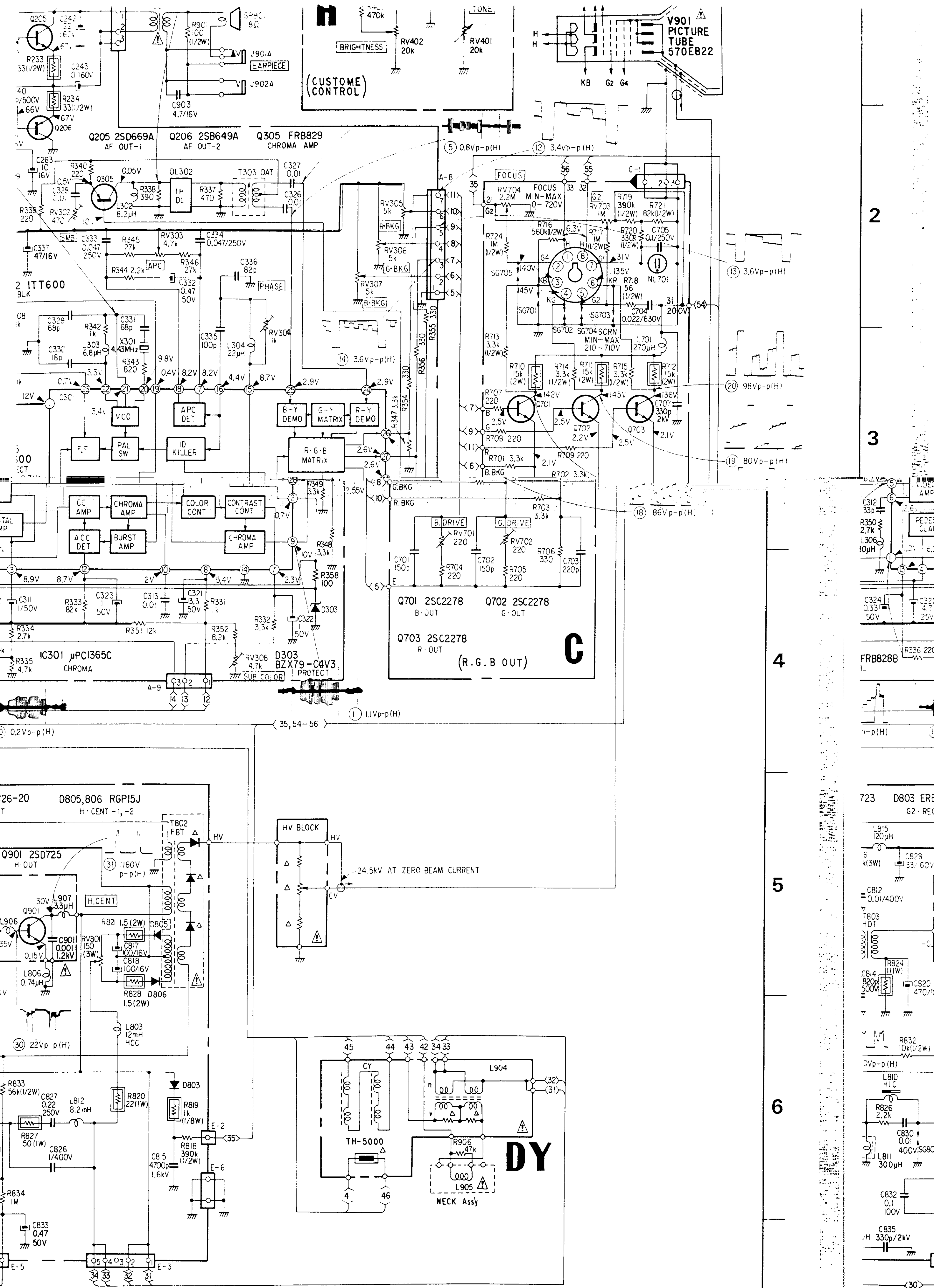

V901 PICTURE TUBE 570EB22
KB G2 G4
BRIGHTNESS RV402 20k
TONE RV401 20k
(CUSTOME CONTROL)
SP901 8Ω
R901 100 (1/2W)
J901A EARPIECE
J902A
C903 4.7/16V
Q205 2SD669A AF OUT-1
Q206 2SB649A AF OUT-2
Q305 FRB829 CHROMA AMP
⑤ 0.8Vp-p(H)
⑫ 3.4Vp-p(H)
⑬ 3.6Vp-p(H)
⑭ 3.6Vp-p(H)
⑳ 98Vp-p(H)
⑲ 80Vp-p(H)
⑱ 86Vp-p(H)
⑪ 1.1Vp-p(H)
DL302 1H DL
T303 DAT
RV305 5k R-BKG
RV306 5k G-BKG
RV307 5k B-BKG
APC
PHASE
X301 4.43MHz
RV304 1k
L304 22μH
VCO
APC DET
ID KILLER
F.F
PAL SW
B-Y DEMO
G-Y MATRIX
R-Y DEMO
R-G-B MATRIX
CC AMP
CHROMA AMP
ACC DET
BURST AMP
COLOR CONT
CONTRAST CONT
IC301 μPC1365C CHROMA
RV308 4.7k SUB COLOR
D303 BZX79-C4V3 PROTECT
A-8
A-9
FOCUS
RV704 2.2M FOCUS MIN-MAX 0-720V
RV703 1M
SG705 SG701 SG702 SG703 SG704
SCRN MIN-MAX 210-710V
L701 270μH
NL701
B.DRIVE RV701 220
G.DRIVE RV702 220
Q701 2SC2278 B-OUT
Q702 2SC2278 G-OUT
Q703 2SC2278 R-OUT
(R.G.B OUT)
C
35, 54-56
D805,806 RGP15J H-CENT-1,-2
Q901 2SD725 H-OUT
T802 FBT
HV
HV BLOCK
CV
24.5kV AT ZERO BEAM CURRENT
H.CENT
RV801 150 (3W)
L907 3.3μH
C901 0.001 1.2kV
L806 0.74μH
L803 12mH HCC
D803
R819 1k (1/8W)
R818 390k (1/2W)
C815 4700p 1.6kV
L812 8.2mH
R833 56k(1/2W)
C827 0.22 250V
C826 1/400V
R834 1M
C833 0.47 50V
E-2 E-3 E-5 E-6
③1 1160V p-p(H)
③0 22Vp-p(H)
CY
L904
TH-5000
R906 47k
L905
NECK Assy
DY
2
3
4
5
6
D803 ERB
G2-REG
L815 120μH
C812 0.01/400V
T803 HDT
L810 HLC
R826 2.2k
C830 0.01 400V
L811 300μH
C832 0.1 100V
C835 330p/2kV
FRB828B
R832 10k(1/2W)

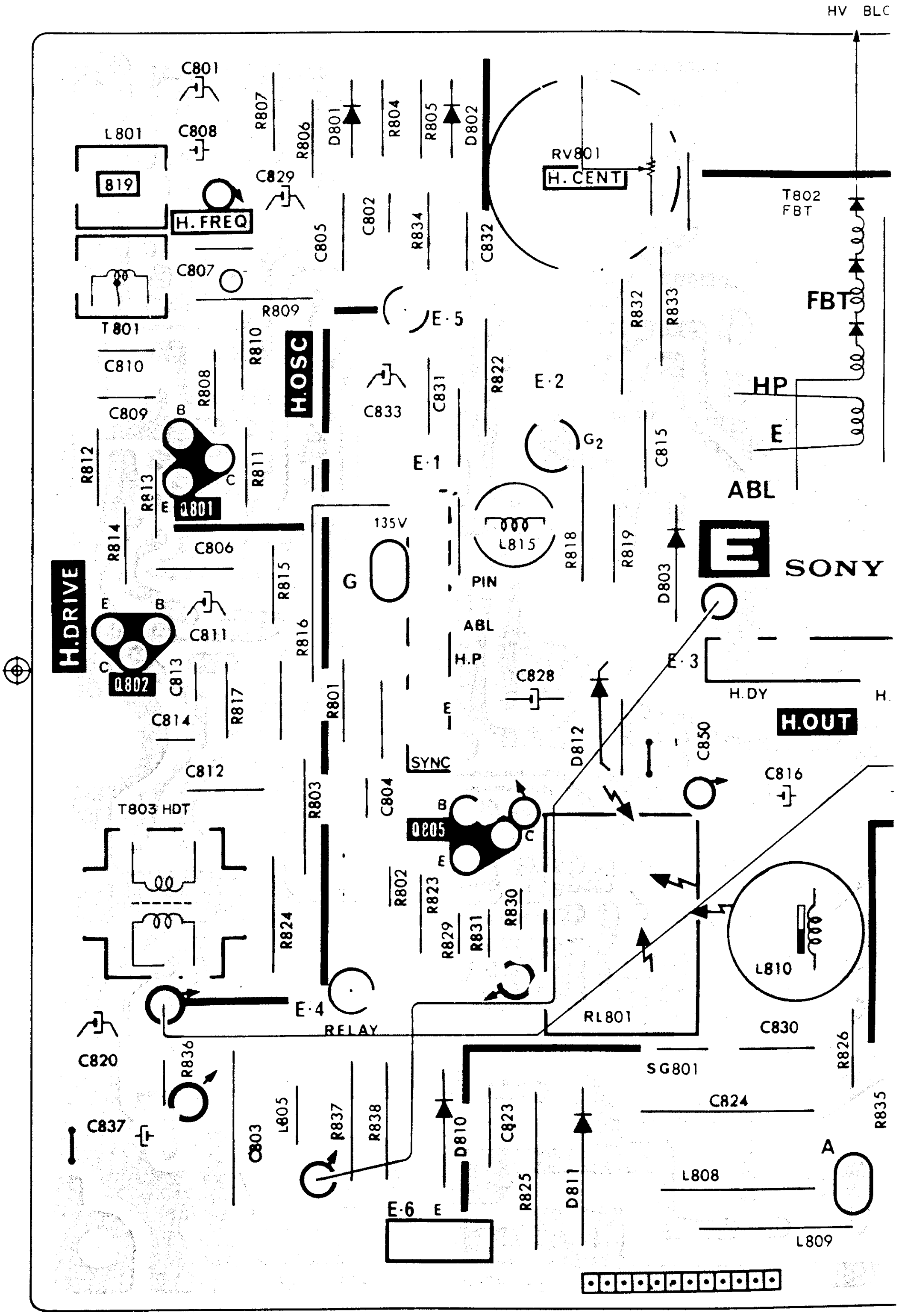
Sony Corporation

A B C D

1 2 3 4 5

E [H· OSC, PIN·OUT / H·DRIVE, H·OUT]

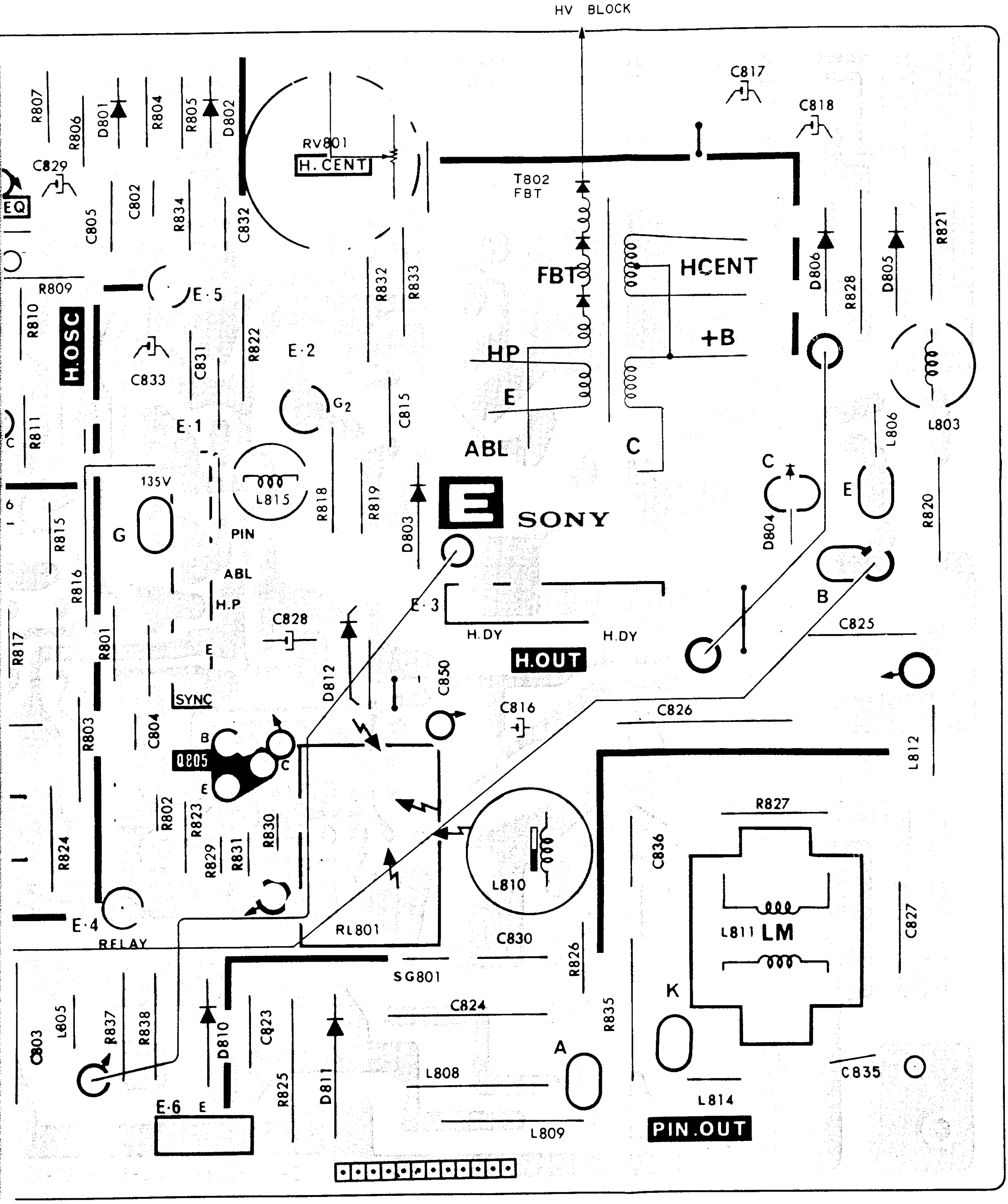
Q	D	ADJ
	801 802	
		RV801
	806 805	
801	803	
802		
	810 811	
Q	D	ADJ



HV BLC
C801
L801
C808
819
H. FREQ
C829
R807
R806
D801
R804
R805
D802
RV801
H. CENT
T802 FBT
FBT
HP
E
ABL
C805
C802
R834
C832
C807
T801
R809
E·5
C810
R808
R810
H.OSC
C833
C831
R822
E·2
R832
R833
C809
B
C
E
Q801
R812
R813
R811
E·1
G2
C815
R814
C806
135V
L815
R818
R819
D803
E
SONY
H.DRIVE
E
B
C
Q802
C811
R815
R816
G
PIN
ABL
H.P
E·3
H.DY
H.
H.OUT
C813
R817
C814
R801
C828
E
SYNC
D812
C850
C816
C812
T803 HDT
R803
C804
B
Q805
C
E
R802
R823
R829
R831
R830
R824
E·4
RELAY
RL801
L810
C830
C820
R836
SG801
R826
C824
R835
C837
C803
L805
R837
R838
D810
C823
D811
R825
A
L808
L809
E·6
E

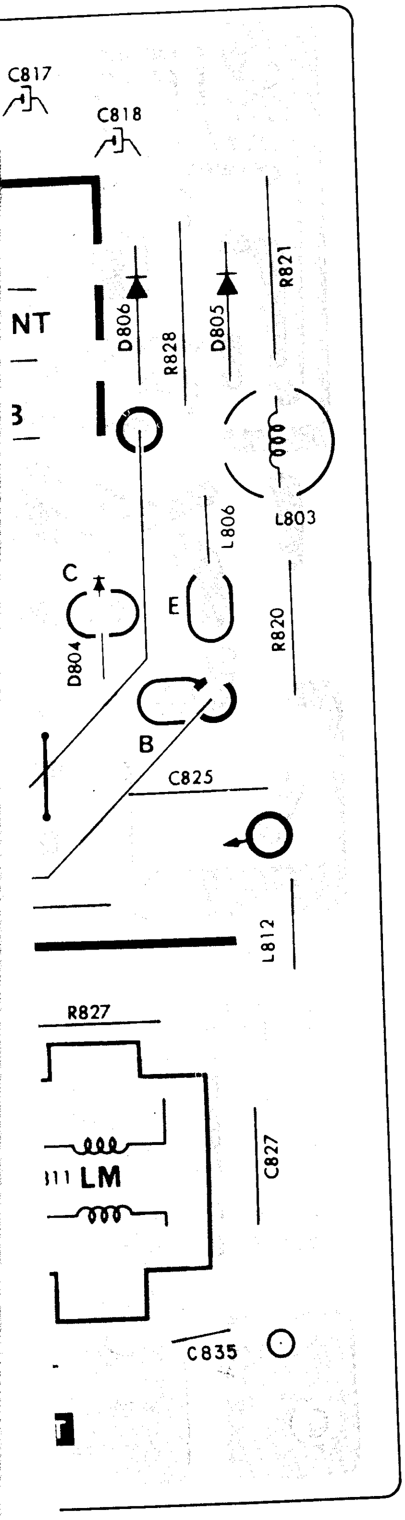
C D E F

F

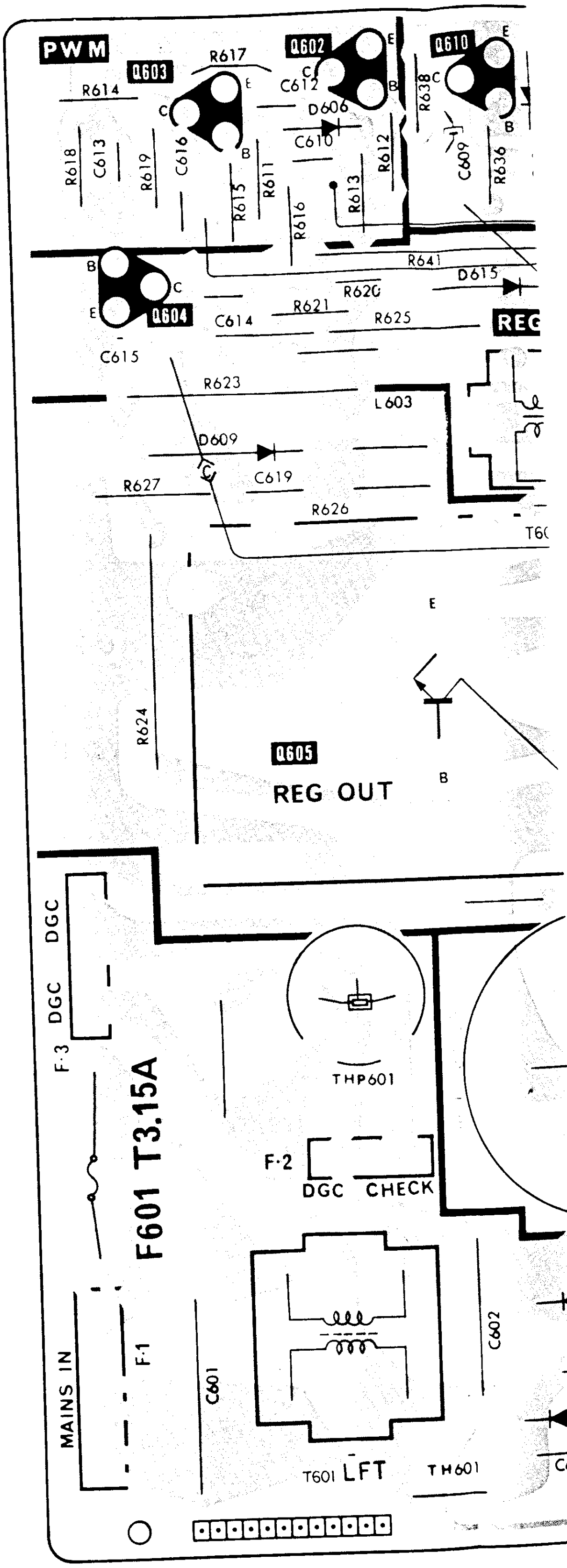

HV BLOCK
R807
R806
D801
R804
R805
D802
RV801
H. CENT
C829
EQ
C805
C802
R834
C832
T802
FBT
C817
C818
R809
E·5
R810
H.OSC
C833
C831
R822
E·2
R832
R833
FBT
HCENT
+B
HP
E
D806
R828
D805
R821
L803
R811
E·1
G2
C815
ABL
C
L806
135V
L815
R818
R819
D803
E
SONY
C
E
D804
R820
R815
G
PIN
ABL
R816
H.P
E·3
B
C828
H.DY
H.DY
C825
R817
R801
E
D812
H.OUT
C850
C816
SYNC
C826
R803
C804
B
Q805
C
E
L812
R827
R802
R823
R830
R829
R831
L810
C836
R824
LM
L811
C827
E·4
RELAY
RL801
C830
R826
SG801
C824
K
R835
C803
L805
R837
R838
D810
C823
D811
A
R825
L808
C835
L814
L809
E·6
E
PIN.OUT

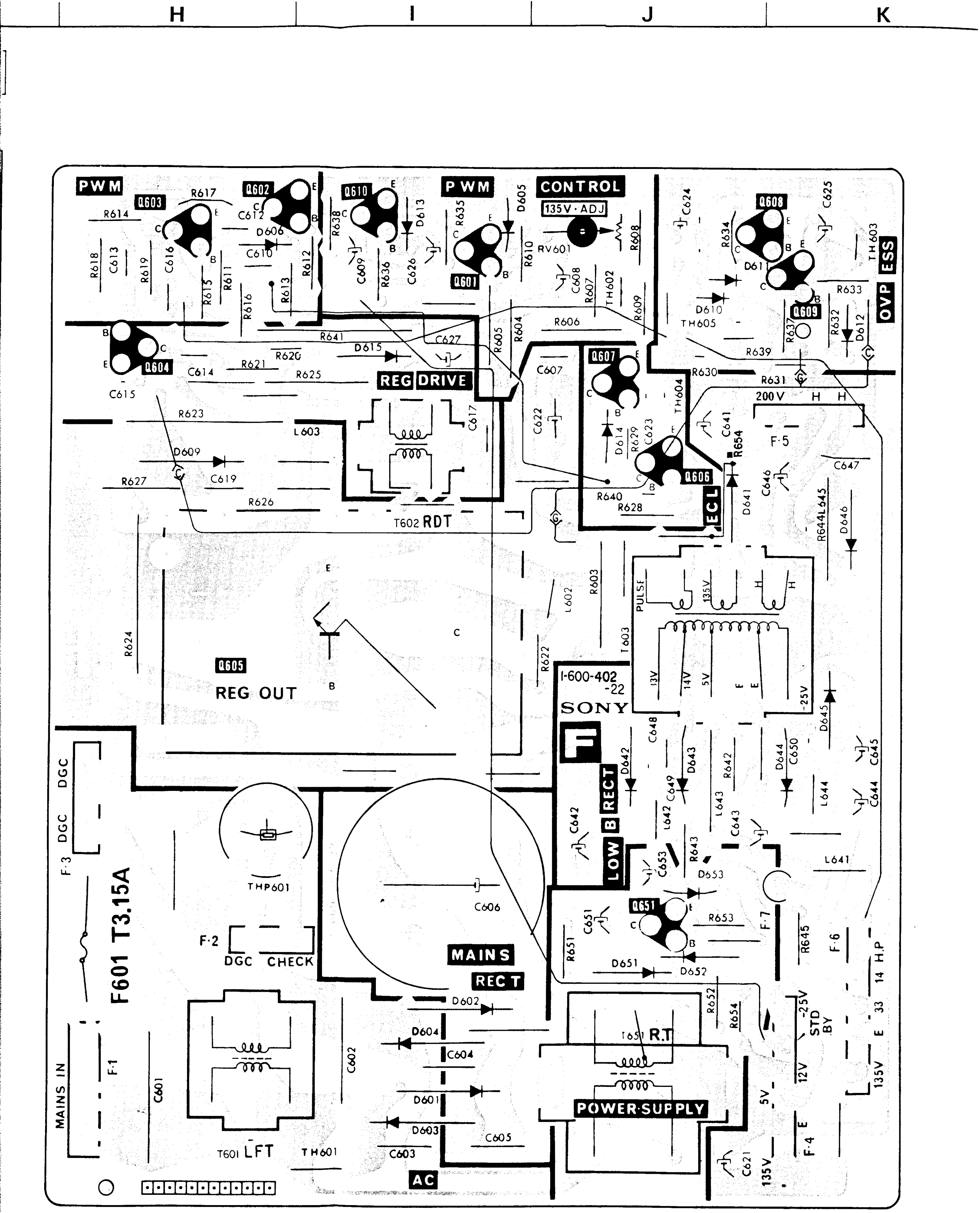
Q
602
603 6
601 6
6
607
604
6
605
651
Q

F [POWER·SUPPLY CONTROL
PWM, REG·DRIVE
MAINS RECT]


C817
C818
NT
D806
R828
D805
R821
L803
L806
C
D804
E
R820
B
C825
L812
R827
LM
C827
C835

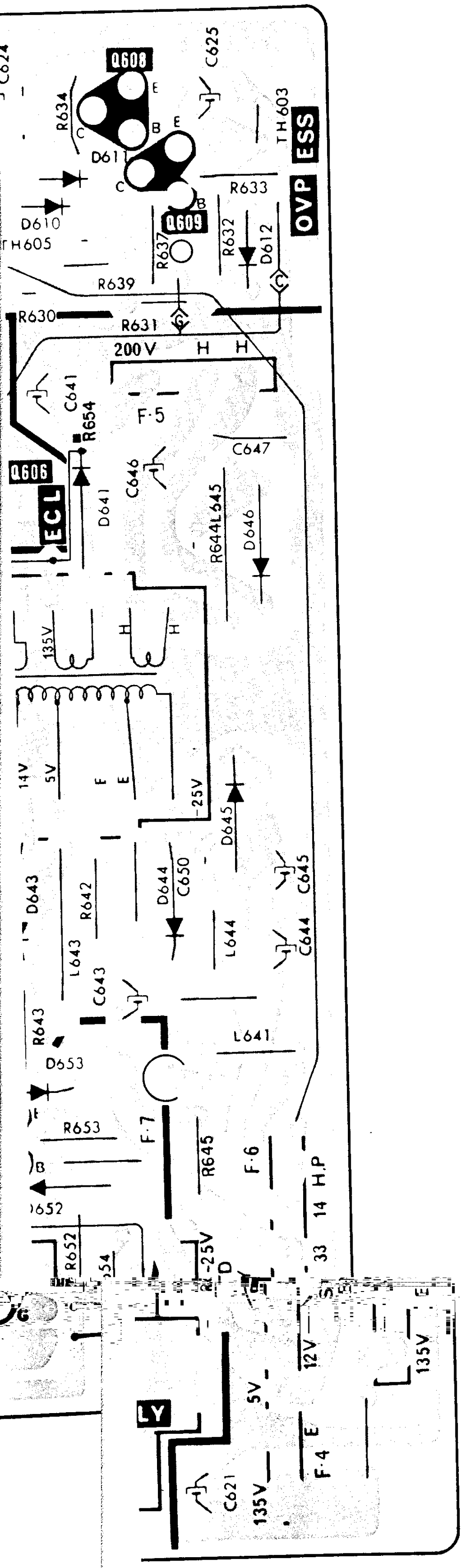
Q	D	ADJ
602 603 610 601 608 609	613 605 606 612	RV601
607 604	615	
606	614	
	609 641 646	
605	645	
	643 642 650	
	653	
651	652 651	
	602 604 601 603	
Q	D	ADJ


PWM
Q603
R614
R617
Q602
C612
E
C
B
D606
Q610
R638
C610
R618
C613
R619
C616
R615
R611
R616
R613
R612
C609
R636
R641
D615
Q604
R620
R621
R625
C614
REG
C615
R623
L603
D609
C619
R627
R626
T6(
R624
Q605
REG OUT
DGC
DGC
F·3
F601 T3.15A
THP601
F·2
DGC CHECK
MAINS IN
F·1
C601
C602
T601 LFT
TH601


H
I
J
K
PWM
Q603
R617
Q602
C612
R614
D606
C610
C613
R618
R619
C616
R615
R611
R616
R613
R612
Q610
R638
C609
R636
C626
D613
PWM
R635
Q601
D605
R610
CONTROL
135V·ADJ
RV601
R608
C608
R607
TH602
R609
C624
Q608
R634
C625
D61
TH603
ESS
OVP
D610
TH605
R633
Q609
R637
R632
D612
R606
R604
R605
R641
D615
C627
R620
R621
R625
Q604
C614
C615
REG
DRIVE
C607
Q607
R639
R630
R631
200V
H
H
R623
L603
C617
C622
D614
R629
C623
TH604
C641
R654
F·5
C647
D609
C619
R627
R626
T602 RDT
R640
R628
Q606
ECL
D641
C646
R644
L645
D646
Q605
REG OUT
E
B
C
R624
L602
R603
R622
T603
PULSE
135V
H
H
13V
14V
5V
E
E
-25V
1-600-402
-22
SONY
F
C648
D645
RECT
B
LOW
D642
D643
R642
D644
C650
C645
C649
L642
L643
C643
L644
C644
C642
C653
R643
D653
L641
DGC
DGC
F·3
F601 T3.15A
THP601
C606
F·7
Q651
R653
C651
R651
F·2
DGC CHECK
MAINS
RECT
D651
D652
R645
F·6
H.P
14
D602
R652
R654
T651 R.T
-25V
STD BY
33
D604
C604
E
MAINS IN
F·1
C601
C602
D601
12V
135V
POWER·SUPPLY
5V
D603
C605
T601 LFT
TH601
C603
AC
C621
135V
E
F·4

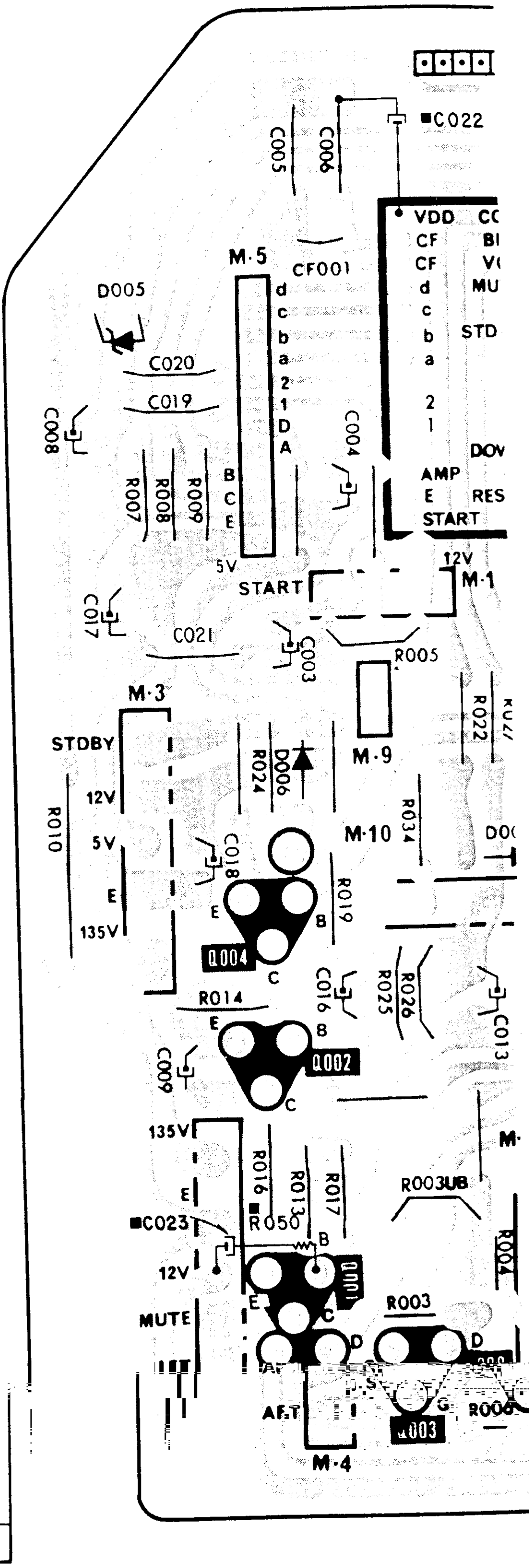
K L M N

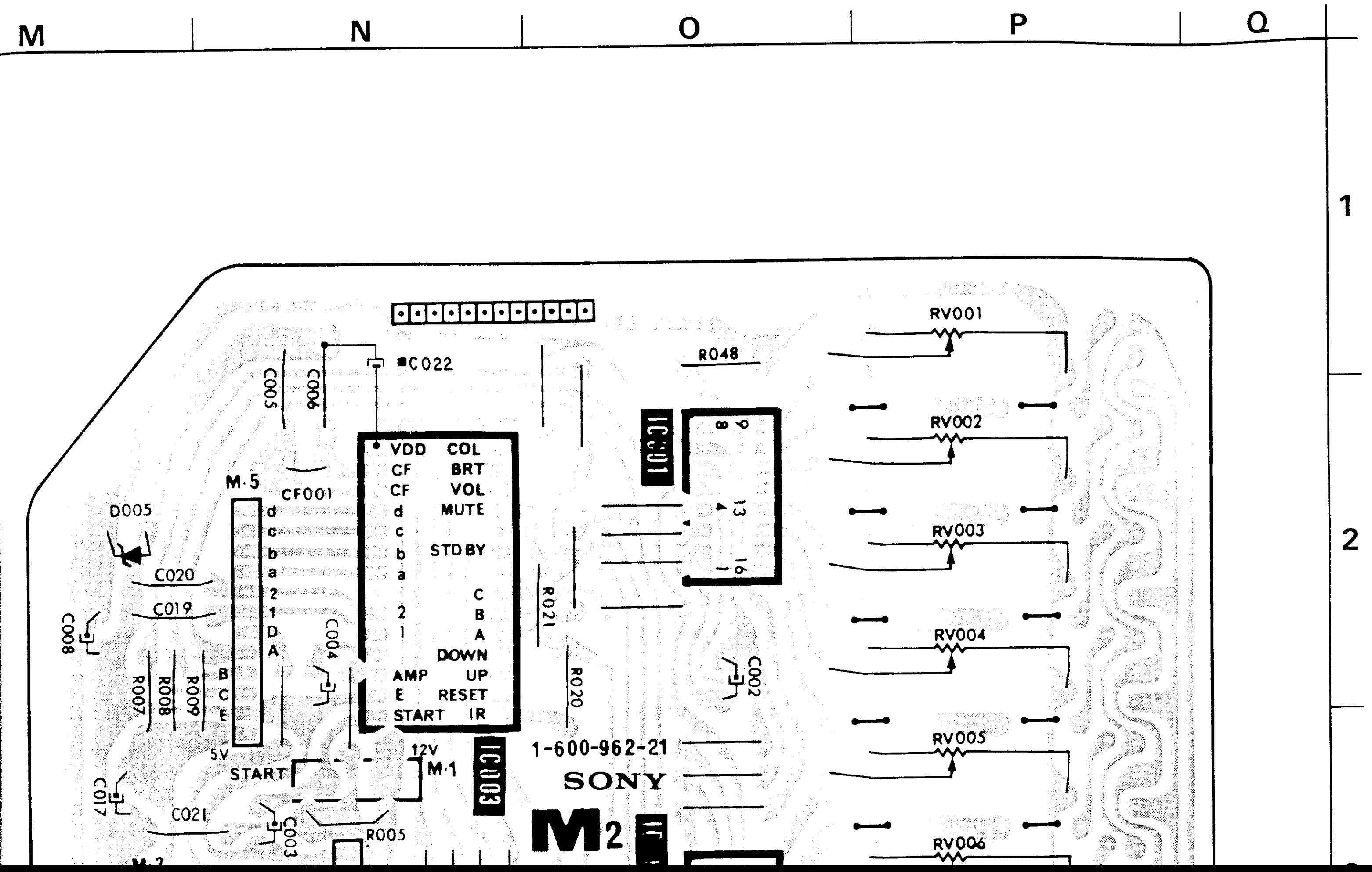
M2 CH SELECT, CH PRESET, STANDBY, AFT REMOTE CONTROL


Q608
Q609
Q606
C625
R634
TH603
ESS
OVP
D611
D610
R633
TH605
R637
R632
D612
R639
R630
R631
200V
H
F·5
C641
R654
C647
C646
ECL
D641
R644
L645
D646
135V
14V
5V
-25V
D645
D643
R642
D644
C650
C645
L644
L643
C644
C643
R643
D653
L641
R653
F·7
R645
F·6
H.P
D652
R652
33
LY
12V
C621
F·4
E

Q, IC	D	ADJ
		RV001
IC001		
		RV002
IC003		
		RV003
	005	
		RV004
		RV005
IC002		RV006
		RV007
		RV008
004	001	
002		
		RV009
001		
003		

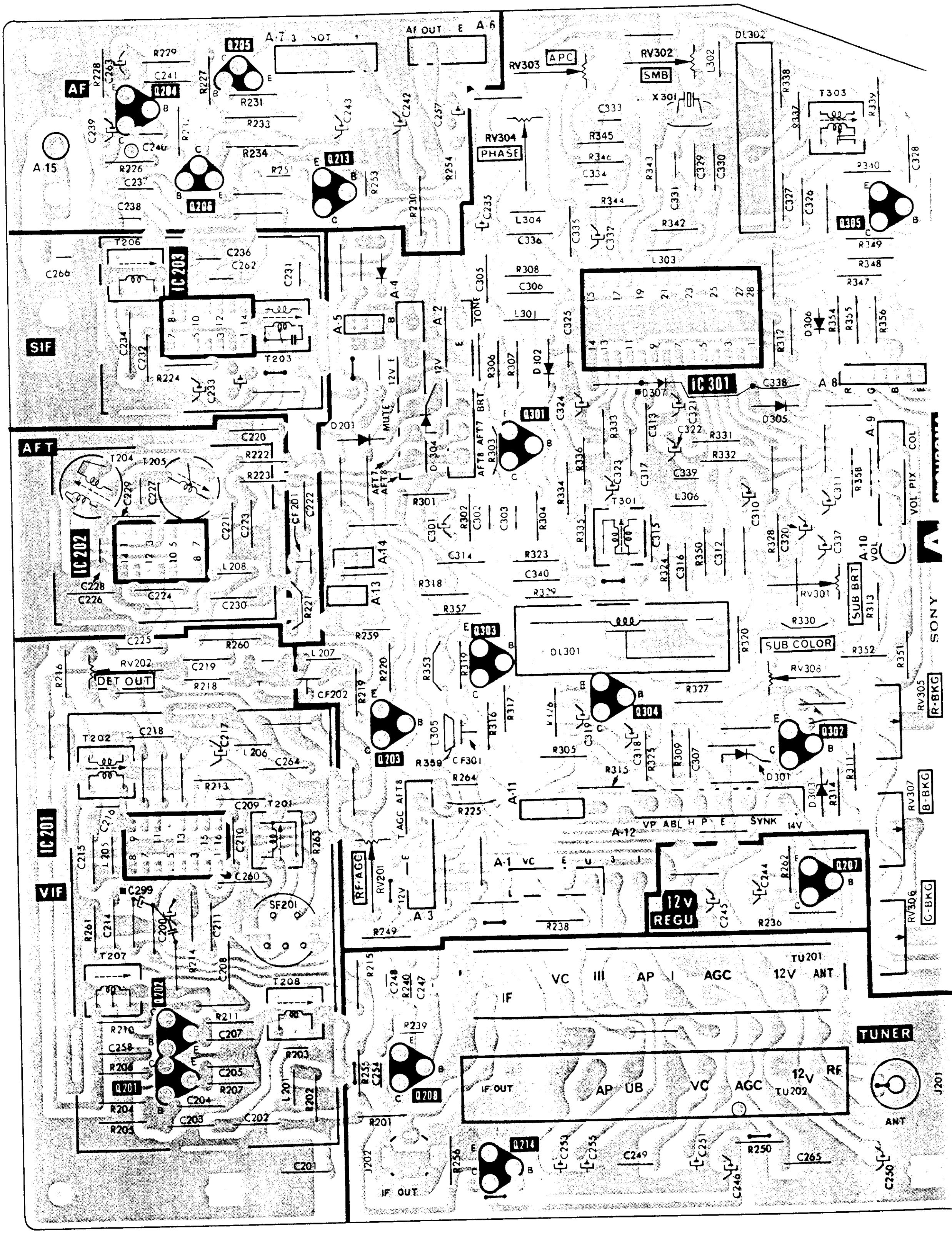
Q, IC		


C022
C005
C006
VDD
CF
CF
STD
M·5
CF001
D005
C020
C019
C008
C004
R007
R008
R009
AMP
START
5V
12V
M·1
C017
C021
C003
R005
M·3
STDBY
R024
D006
M·9
R022
R010
12V
5V
E
135V
C018
M·10
R034
R019
Q004
R014
C016
R025
R026
C013
C009
Q002
135V
R016
R013
R017
R003UB
C023
R050
12V
Q001
MUTE
R003
AFT
Q003
M·4

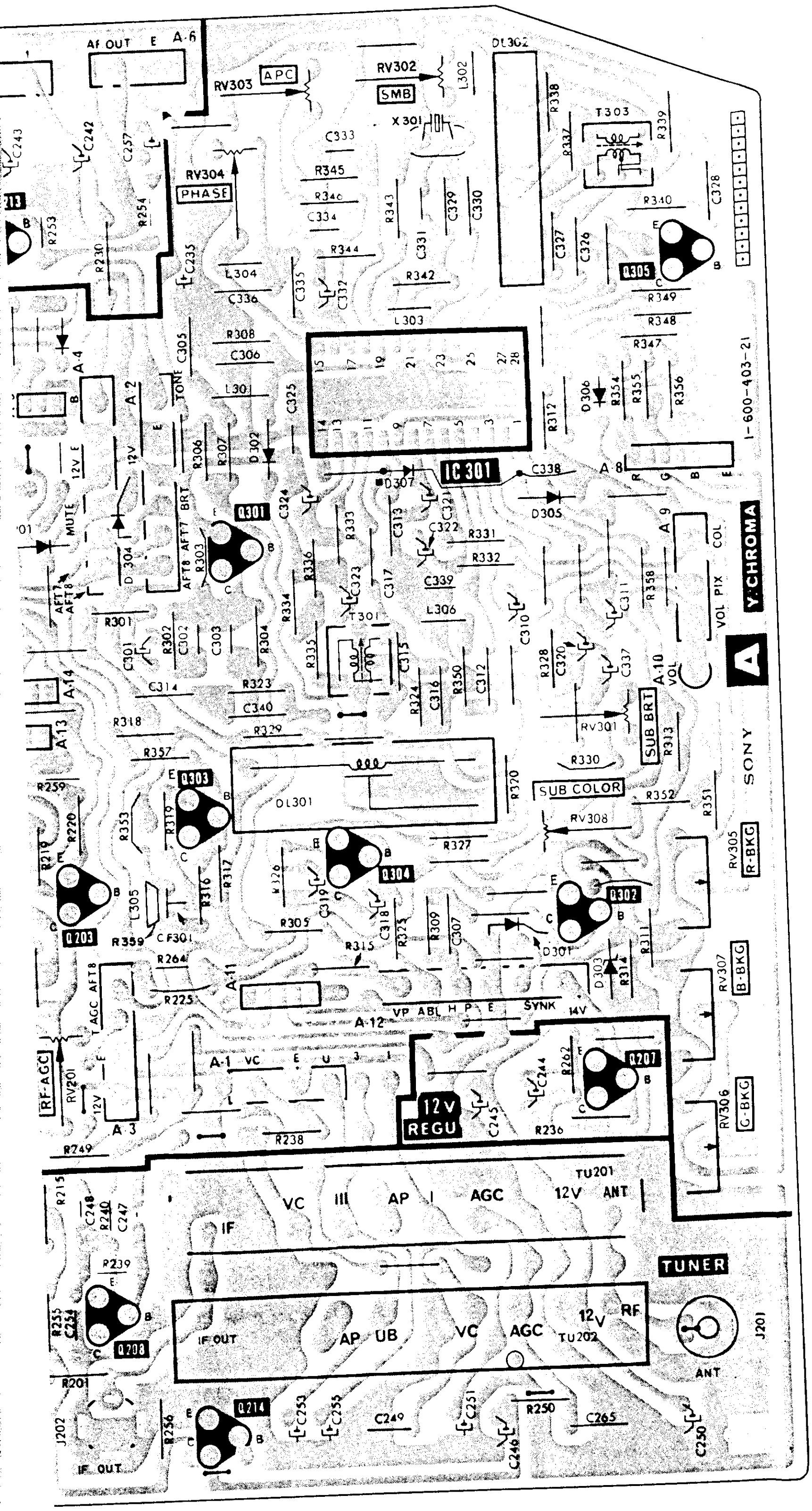

M
N
O
P
Q
1
2
RV001
RV002
RV003
RV004
RV005
RV006
R048
■C022
C005
C006
IC001
9
8
13
4
16
1
VDD
COL
CF
BRT
CF
VOL
d
MUTE
c
b
STD BY
a
C
2
B
1
A
DOWN
AMP
UP
E
RESET
START
IR
M·5
CF001
D005
d
c
b
a
2
1
D
A
B
C
E
C020
C019
C008
R007
R008
R009
C004
R021
R020
C002
5V
START
12V
M·1
IC003
C017
C021
C003
R005
1-600-962-21
SONY
M2

A [TUNER, Y·CROMA 12V REGU, VIF, AFT, SIF, AF]

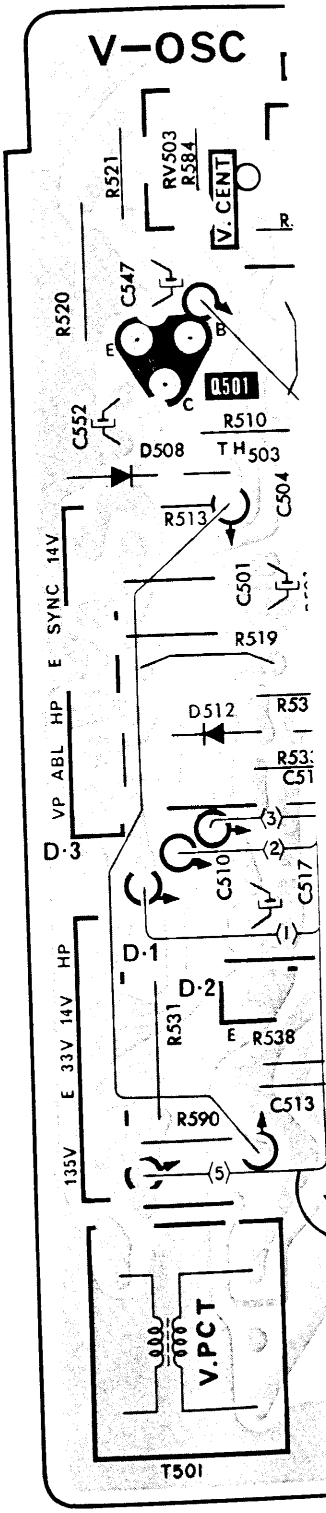
	Q, IC	D	ADJ
6			
	205		
			RV303 RV302
7	204		
			RV304
	206		
	305		
	IC203		
		302	
8	IC301	305	
	301	304	
		201	
		307	
	IC202		
			RV301
	303		
9			RV202
			RV308
	304	301	RV305
	302		
	203		
		303	
	IC201		RV307
			RV201
	207		
10			RV306
	202		
	201		
	214		
11	Q, IC	D	ADJ


AF
SIF
AFT
VIF
TUNER
12V REGU
IC 203
IC 202
IC 201
IC 301
Q205
Q204
Q206
Q213
Q305
Q301
Q303
Q304
Q302
Q203
Q207
Q202
Q201
Q208
Q214
RV303 APC
RV302 SMB
RV304 PHASE
DET OUT
RF-AGC
RV201
RV202
RV301
SUB BRT
SUB COLOR
RV306
RV305 R-BKG
RV307 B-BKG
RV306 G-BKG
DL301
DL302
T201
T202
T203
T204
T205
T206
T207
T208
T301
T303
X301
SF201
CF201
CF202
CF301
A·7
A·6
AF OUT
A·15
A·5
A·4
A·2
A·14
A·13
A·11
A·12
A·1
A 3
A 8
A·9
A·10
VP ABL H P E SYNK 14V
TU201
IF VC III AP I AGC 12V ANT
TU202
IF OUT AP UB VC AGC 12V RF
J201
ANT
J202
IF OUT
VOL PIX COL
TONE
MUTE
12V
AFT7 AFT8
BRT
SONY

D VERT, ETC
PIN-MOD
RELAL·DRIVE CONV

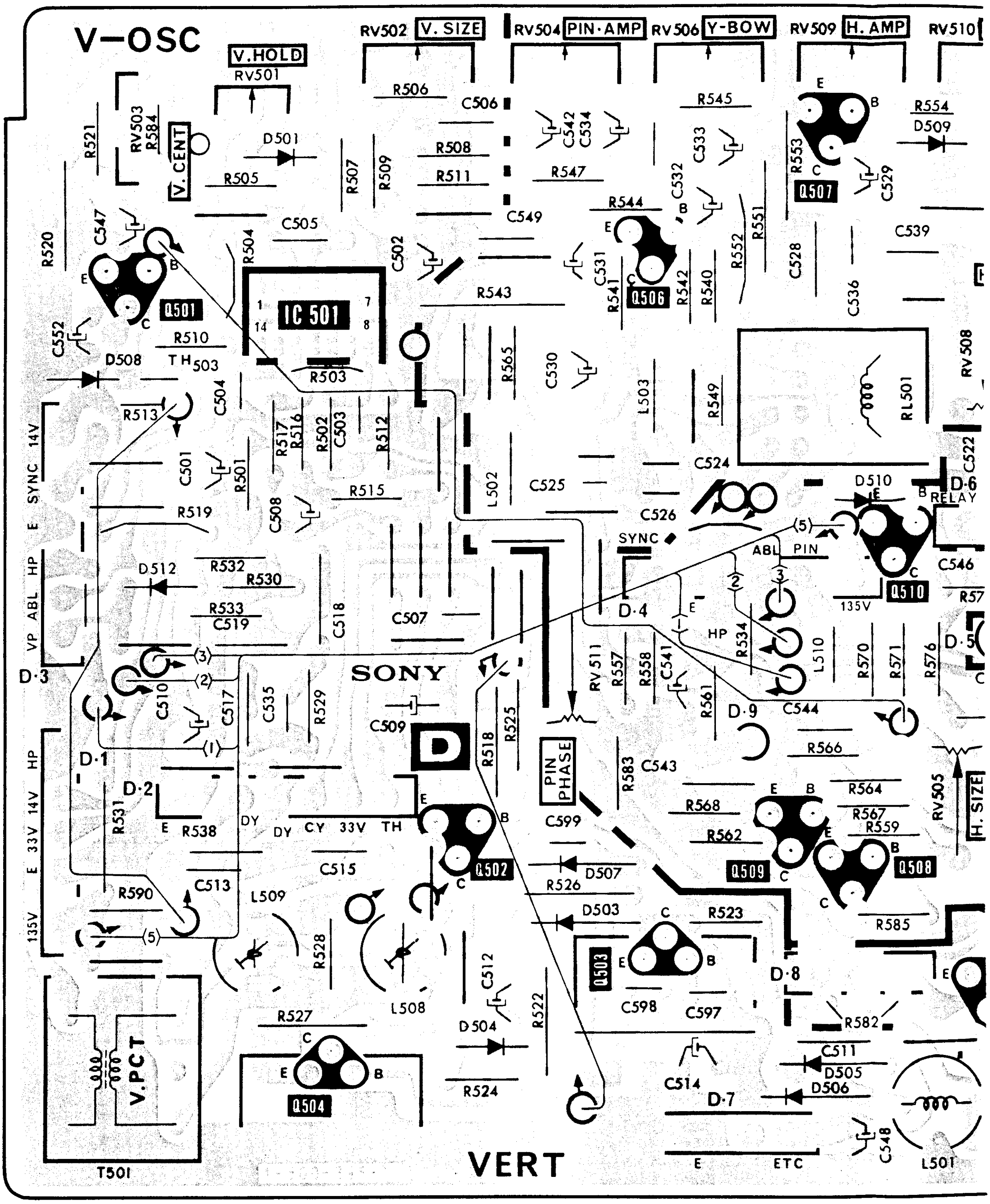

AF OUT
RV303
APC
RV302
SMB
DL302
X301
T303
RV304
PHASE
Q305
IC 301
Q301
Q302
Q303
Q304
Q203
Q207
Q208
Q214
T301
DL301
RV301
SUB BRT
SUB COLOR
RV308
RV305 R·BKG
RV307 B·BKG
RV306 G·BKG
RV201
RF-AGC
12V REGU
Y·CHROMA
A
SONY
1-600-403-21
TU201
TU202
TUNER
IF OUT
ANT
J201
J202
VC
AP
AGC
12V
IF
UB
RF

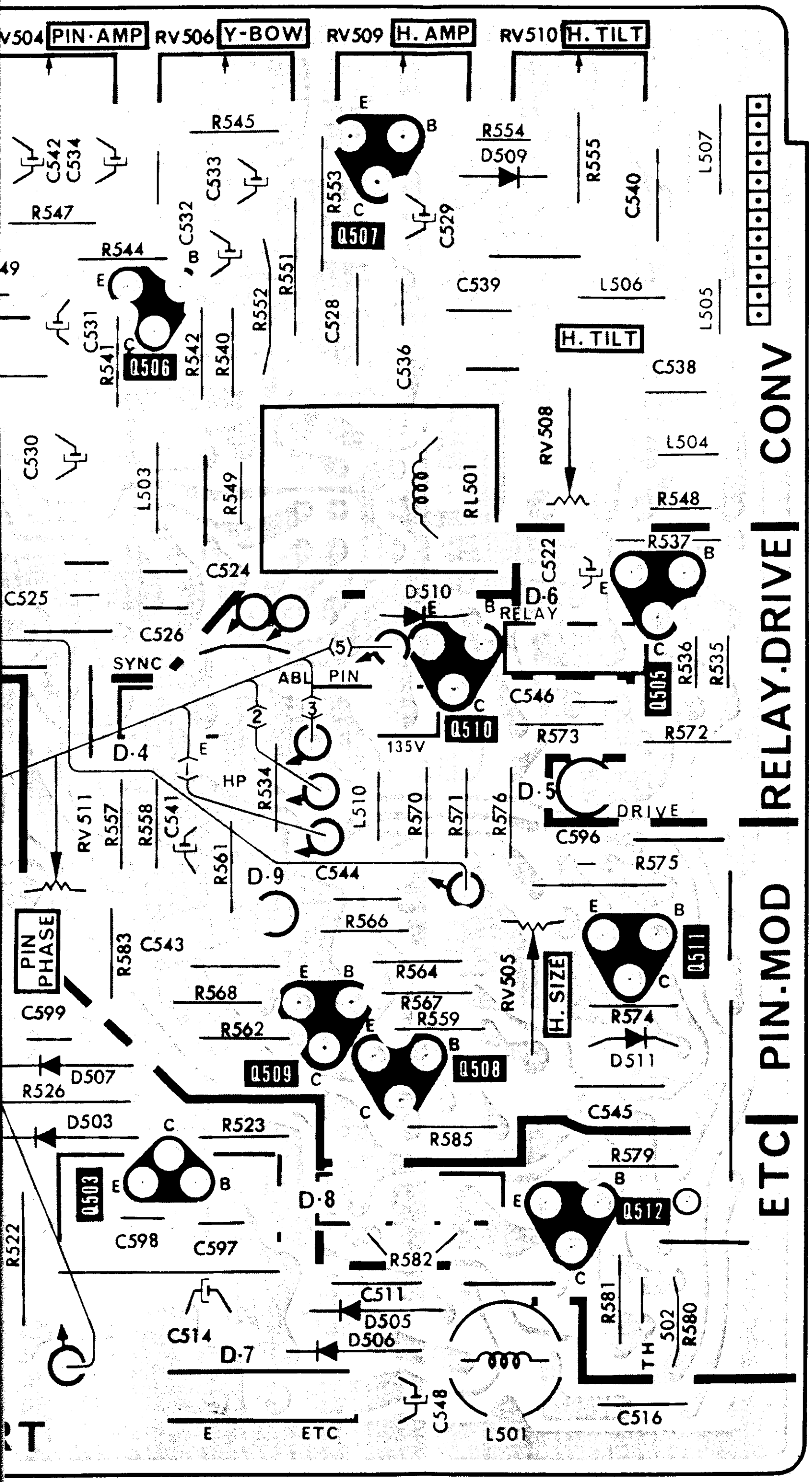
Q, IC	D	ADJ
		RV502
		RV504
		RV501
		RV506
507		RV503
	509	RV509
	501	RV510
506		
501		
IC501		
	508	
	510	
510		
	512	
		RV511
		RV505
511		
508		
502	511	
509		
	507	
	503	
503		
512		
	504	
	505	
504		
	506	
Q, IC	D	ADJ


V-OSC
RV503
R584
V. CENT
R521
R520
C547
Q501
R510
TH503
D508
C552
R513
C504
C501
R519
D512
C510
C517
D·3
D·1
D·2
R531
R538
R590
C513
VP
ABL
HP
E
SYNC
14V
33V
135V
V.PCT
T501

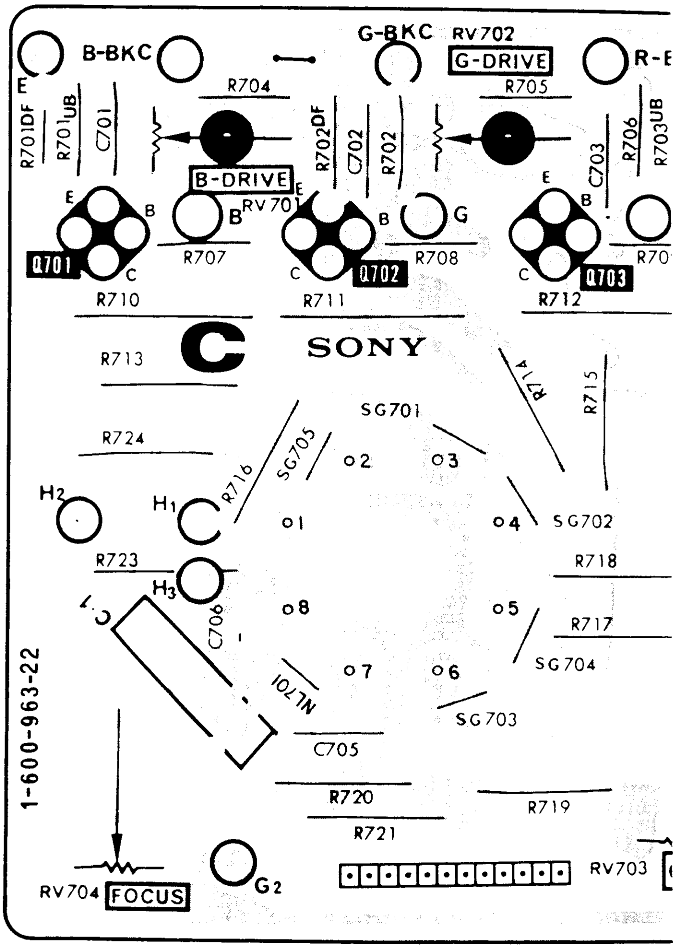
[VERT, ETC
PIN-MOD
RELAL-DRIVE CONV]

C	D	ADJ
		RV502
		RV504
		RV501
		RV506
507		RV503
	509	RV509
	501	RV510
06		
1		
	508	
	510	
510		
	512	
		RV511
		RV505
511		
508		
509	511	
	507	
	503	
3		
512		
	504	
	505	
	506	
C	D	ADJ

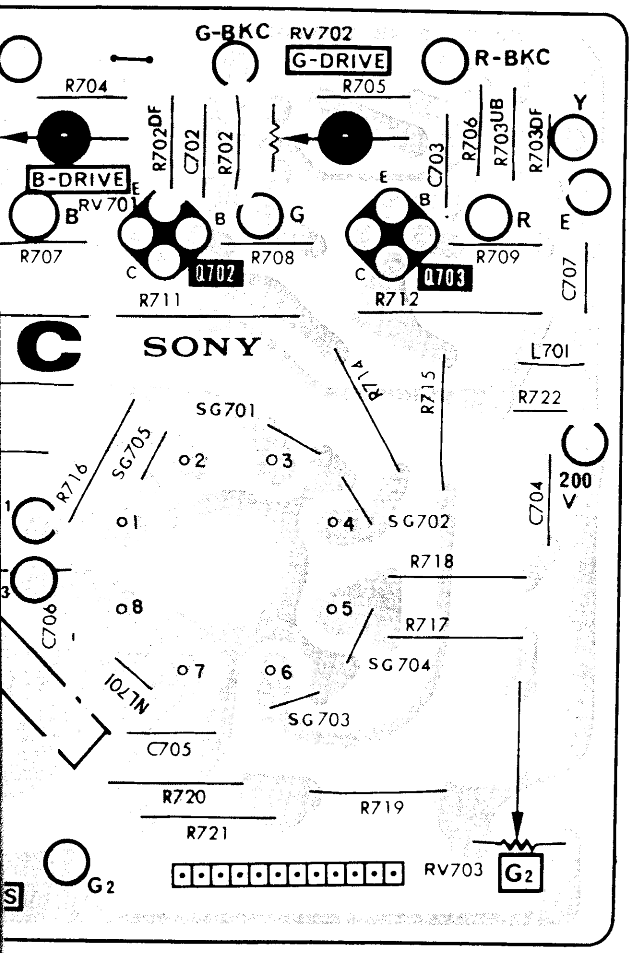

V-OSC
V.HOLD
RV501
RV502
V. SIZE
RV504
PIN·AMP
RV506
Y-BOW
RV509
H. AMP
RV510
RV503
R584
V. CENT
R521
D501
R505
R506
C506
R508
R511
R507
R509
R547
C542
C534
R545
C533
C532
R553
R554
D509
Q507
C529
E
B
C
C547
R520
Q501
R504
C505
C502
C549
R544
C531
R541
Q506
R542
R540
R552
R551
R528
C539
C536
IC 501
1
7
14
8
R543
C552
R510
D508
TH503
R503
R565
C530
L503
R549
RL501
RV508
R513
C504
R517
R516
R502
C503
R512
VP
ABL
HP
E
SYNC
14V
C501
R501
L502
C525
C524
D510
D·6
RELAY
C522
R519
C508
R515
C526
SYNC
ABL
PIN
(5)
C546
Q510
135V
R57
D512
R532
R530
R533
C519
C518
C507
D·4
HP
R534
L510
R570
R571
R576
D·5
D·3
(3)
(2)
(1)
C510
C517
C535
R529
SONY
C509
D
R518
R525
RV511
R557
R558
C541
R561
D·9
C544
R566
D·1
D·2
R531
E
R538
DY
DY
CY
33V
TH
Q502
PIN PHASE
R583
C543
C599
R568
R564
R567
R559
R562
Q509
Q508
RV505
H. SIZE
E
33V
14V
HP
135V
R590
C513
L509
C515
R526
D507
D503
R523
R585
Q503
C598
C597
D·8
R528
L508
C512
R522
R582
T501
V.PCT
R527
Q504
D504
R524
C514
D·7
C511
D505
D506
C548
L501
VERT
E
ETC


RV504 PIN·AMP
RV506 Y-BOW
RV509 H. AMP
RV510 H. TILT
R545
R554
D509
R555
L507
C542
C534
C533
C532
R553
Q507
C529
C540
R547
R544
R551
R552
C528
C539
L506
L505
C531
Q506
R541
R542
R540
C536
H. TILT
C538
CONV
C530
L503
R549
RL501
RV508
L504
R548
C524
C522
R537
C525
C526
D510
D·6
RELAY
RELAY·DRIVE
SYNC
ABL
PIN
(5)
Q510
C546
Q505
R536
R535
D·4
HP
R534
135V
R573
R572
RV511
R557
R558
C541
L510
R570
R571
R576
D·5
DRIVE
C596
R561
D·9
C544
R575
PIN PHASE
R583
C543
R566
RV505
H. SIZE
Q511
PIN.MOD
R568
R564
R567
R559
R574
C599
R562
D511
Q509
Q508
D507
R526
D503
R523
R585
C545
ETC
Q503
R579
D·8
Q512
R522
C598
C597
R582
C511
D505
C514
D506
D·7
R581
TH 502
R580
C548
L501
C516
E
ETC
RT

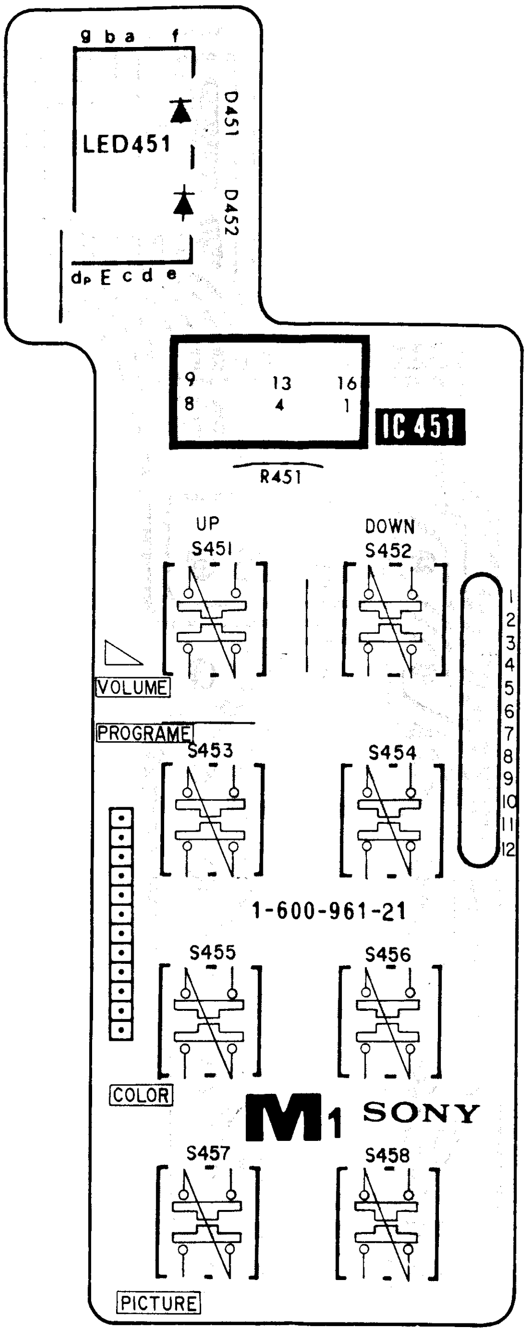
C [R·G·B· OUT]


B-BKC
G-BKC
RV702
G-DRIVE
R-B
R704
R705
R701DF
R701UB
C701
R702DF
C702
R702
C703
R706
R703UB
B-DRIVE
RV701
Q701
R707
Q702
R708
Q703
R709
R710
R711
R712
R713
C
SONY
R714
R715
SG701
SG705
R724
H2
H1
R716
SG702
R718
R723
H3
C706
R717
C·1
1-600-963-22
SG704
NL701
SG703
C705
R720
R719
R721
RV704 FOCUS
G2
RV703

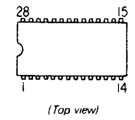
· OUT]


G-BKC
RV702
G-DRIVE
R-BKC
R704
R705
R702DF
C702
R702
C703
R706
R703UB
R703DF
Y
B-DRIVE
RV701
E
B
G
R
R707
R708
R709
C
Q702
Q703
R711
R712
C707
SONY
L701
R714
R715
R722
SG701
SG705
R716
o2
o3
o1
o4
SG702
200 V
C704
R718
C706
o8
o5
R717
SG704
NL701
o7
o6
SG703
C705
R720
R719
R721
G2
RV703
S

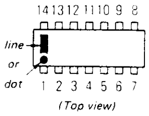
M1 [CUSTOME CONTROL INDICATOR]


g b a f
LED451
D451
D452
dp E c d e
9
13
16
8
4
1
IC451
R451
UP
S451
DOWN
S452
VOLUME
PROGRAME
S453
S454
1
2
3
4
5
6
7
8
9
10
11
12
1-600-961-21
S455
S456
COLOR
M1
SONY
S457
S458
PICTURE

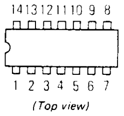
µPC1365C


28
15
1
14
(Top view)

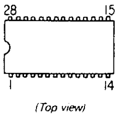
CX157


14 13 12 11 10 9 8
line
or
dot
1 2 3 4 5 6 7
(Top view)

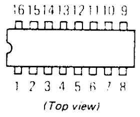
M5135P


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

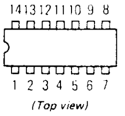
M58485P


28
15
1
14
(Top view)

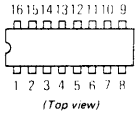
SN29764N
SN29770AN
SN29771AN


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

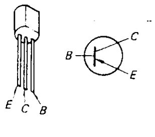
TBA120U

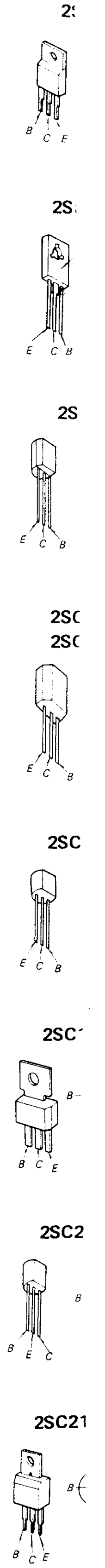

14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

TBA1440G


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

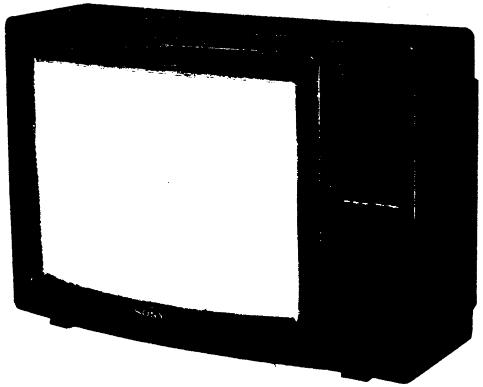
2SA639S
2SA733



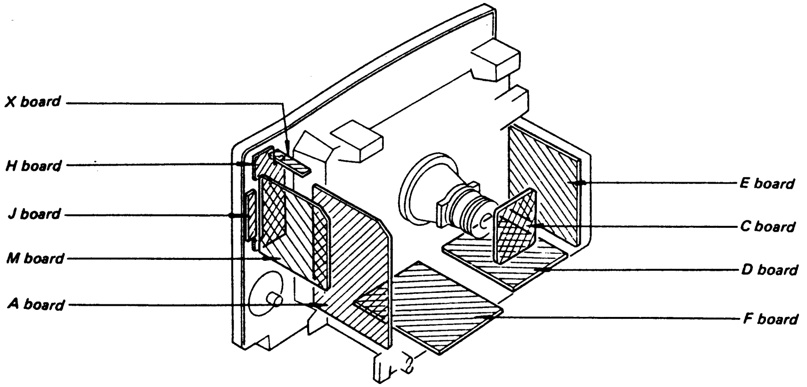

2S
B C E
2S
E C B
2S
E C B
2SC
2SC
E C B
2SC
E C B
2SC
B
B C E
2SC2
B
B E C
2SC21
B
B C E

KV-2204E/KV-2204EC

RM-605



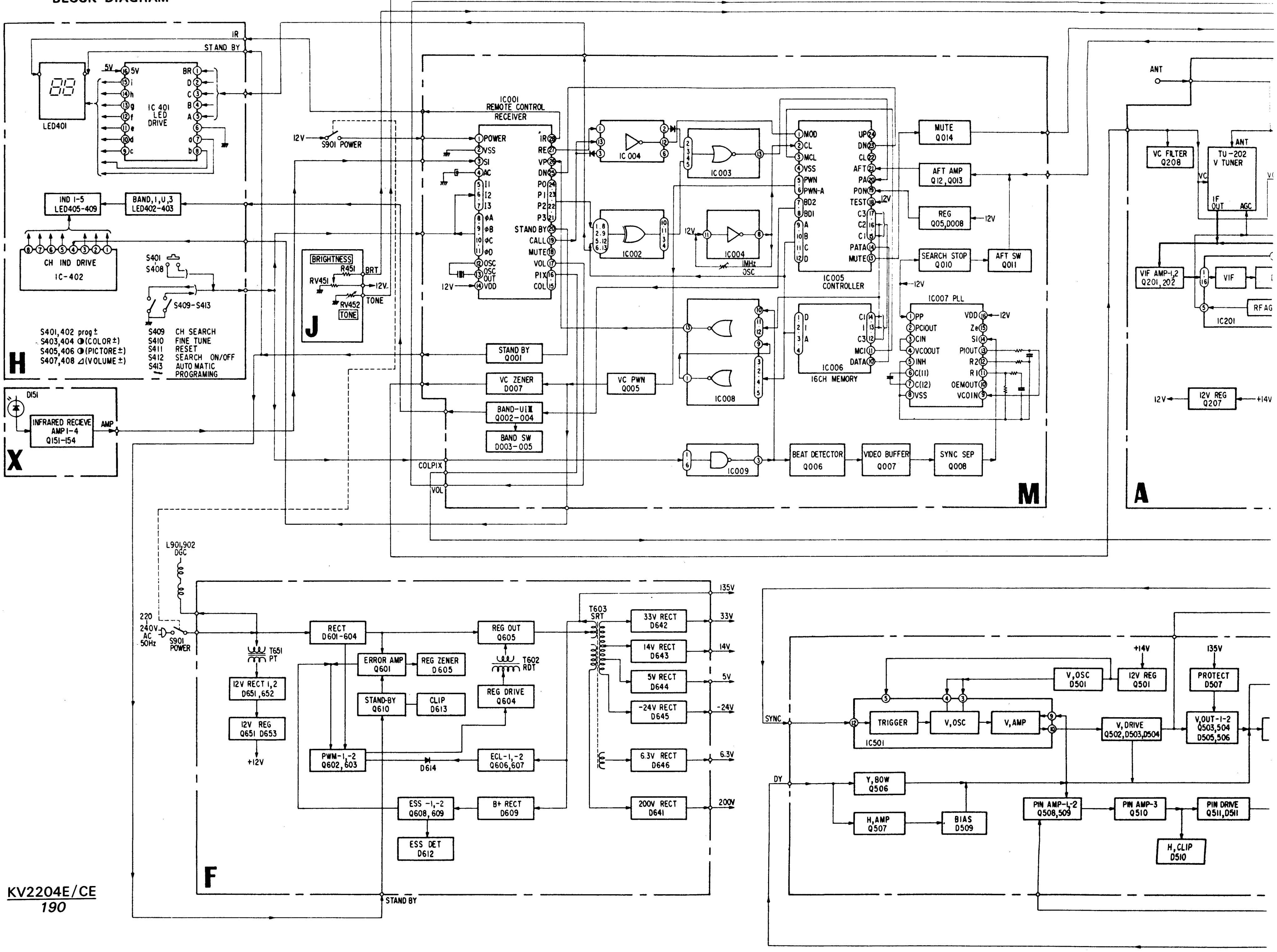
CIRCUIT BOARDS LOCATION



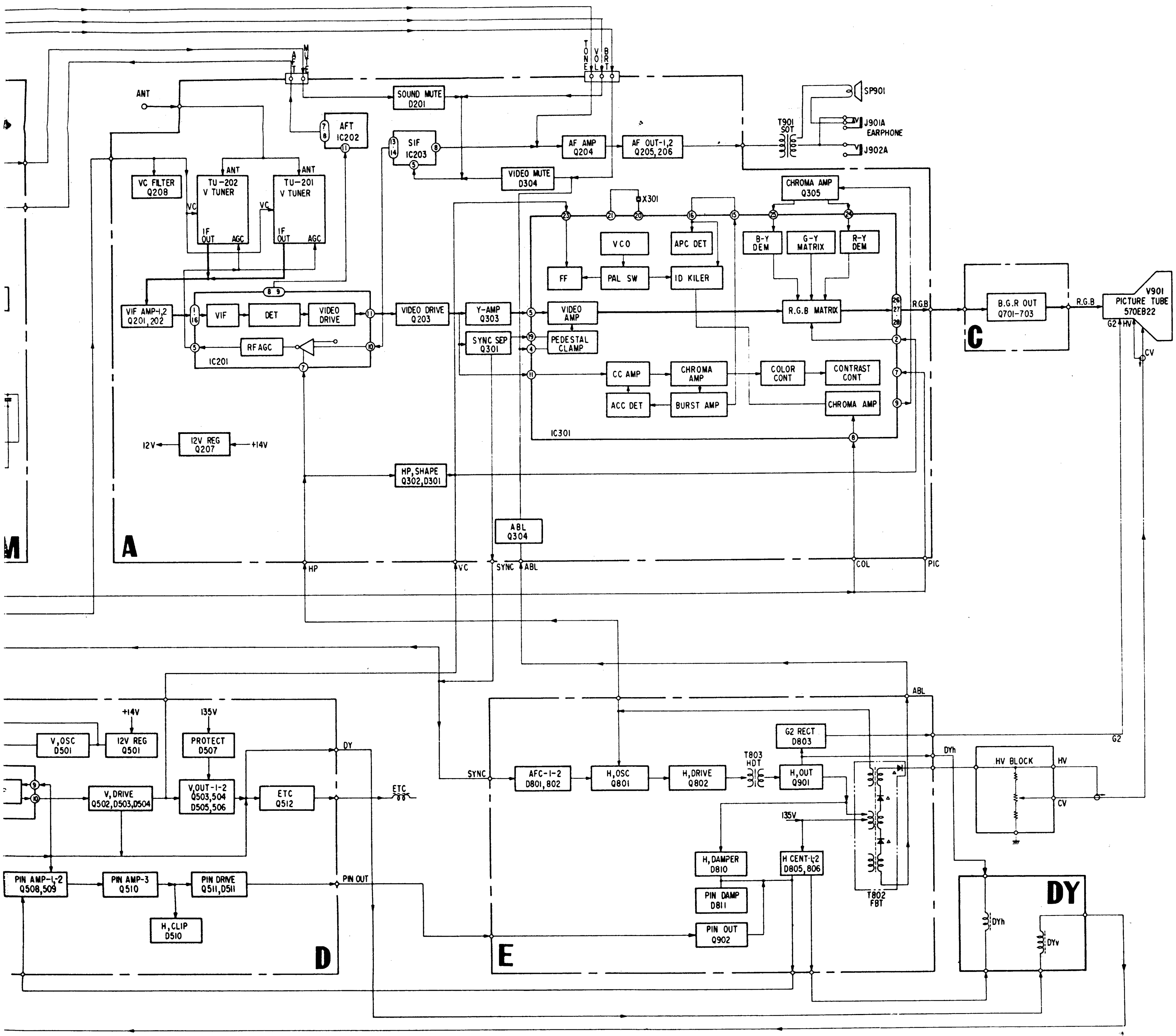
SPECIFICATIONS

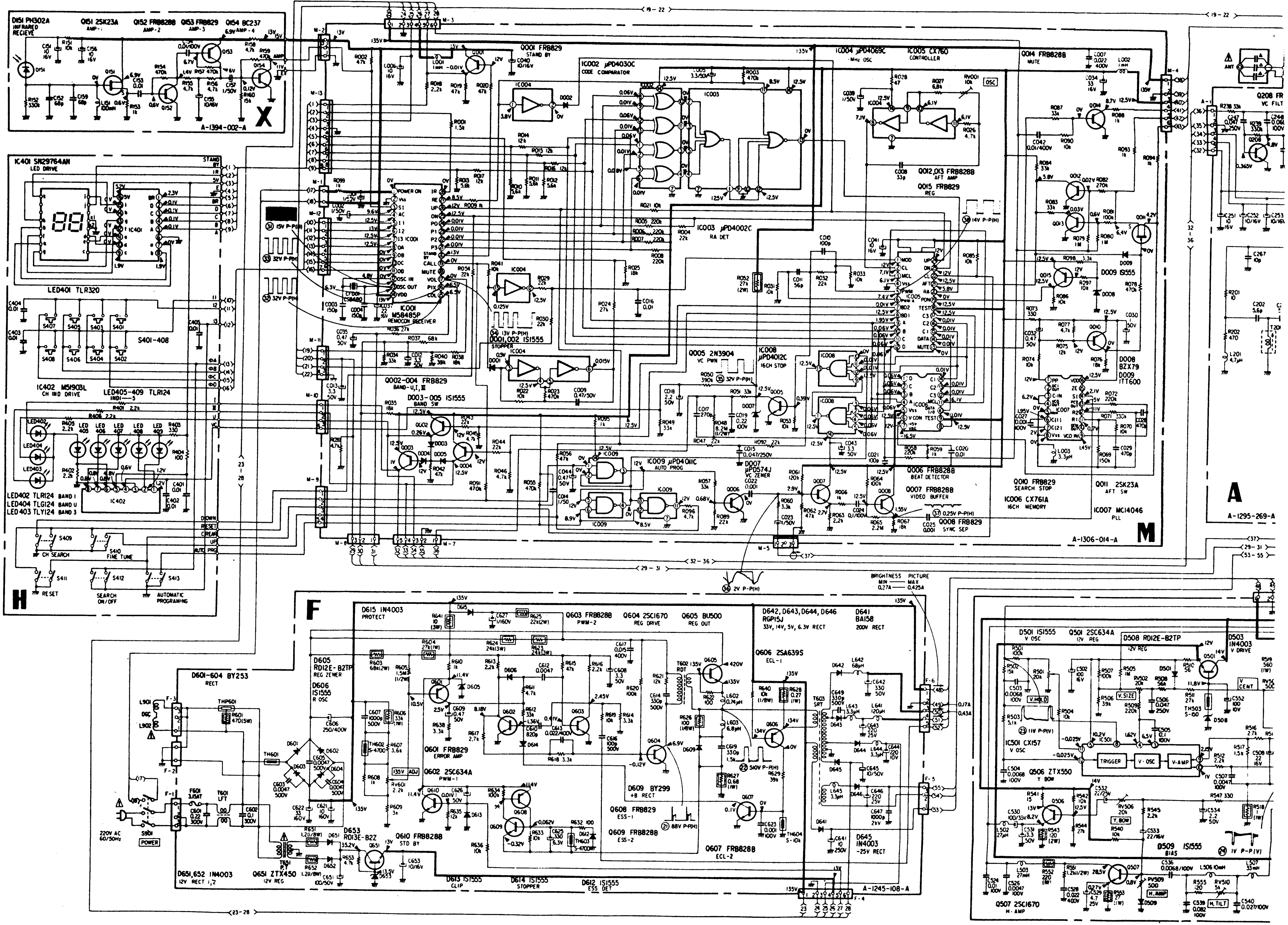
Television System:	CCIR system B, G and H
Color System:	PAL
Picture Tube:	56 cm, 22" (53.8 cm screen measured diagonally), 114° deflection TRINITRON system
Semiconductors:	42 transistors, 1 FET, 7 ICs and 56 diodes
Antennas:	75 Ω standard antenna socket
Channel Coverage:	VHF channels: E2-4 (BAND I) E5-12 (BAND III) UHF channels: E21-68 (BAND IV/V)
Intermediate Frequencies:	Picture i-f carrier: 38.9 MHz Color subcarrier: 34.47 MHz Sound i-f carrier: 33.4 MHz
Sound System:	5.5 MHz intercarrier Output power: 2 W (at 10 % harmonic distortion) Speaker: 12 cm (4 ¾ inches) dia., 8 Ω
Video System:	R, G, B cathode drive
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) ADG (automatic degaussing) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller) APC (automatic phase control) AVR (automatic voltage regulator)
Anode Voltage:	24.5 kV at zero beam current
Hochspannung:	24.5 kV bei 0 mA strahlstrom
Power Requirement:	220 – 240 V ac, 50 Hz
Power Consumption:	98 W ac 7 W ac (in stand-by condition)
Dimensions:	Approx. 669 (w) x 459 (h) x 413 (d) mm 26 ⅜(w) x 18 ⅛(h) x 16 ⅜(d) inches
Net Weight:	Approx. 32 kg (70 lb 9 oz)
Accessories Supplied:	Remote commander RM-605 Earpiece (ME-20B) Instruction manual

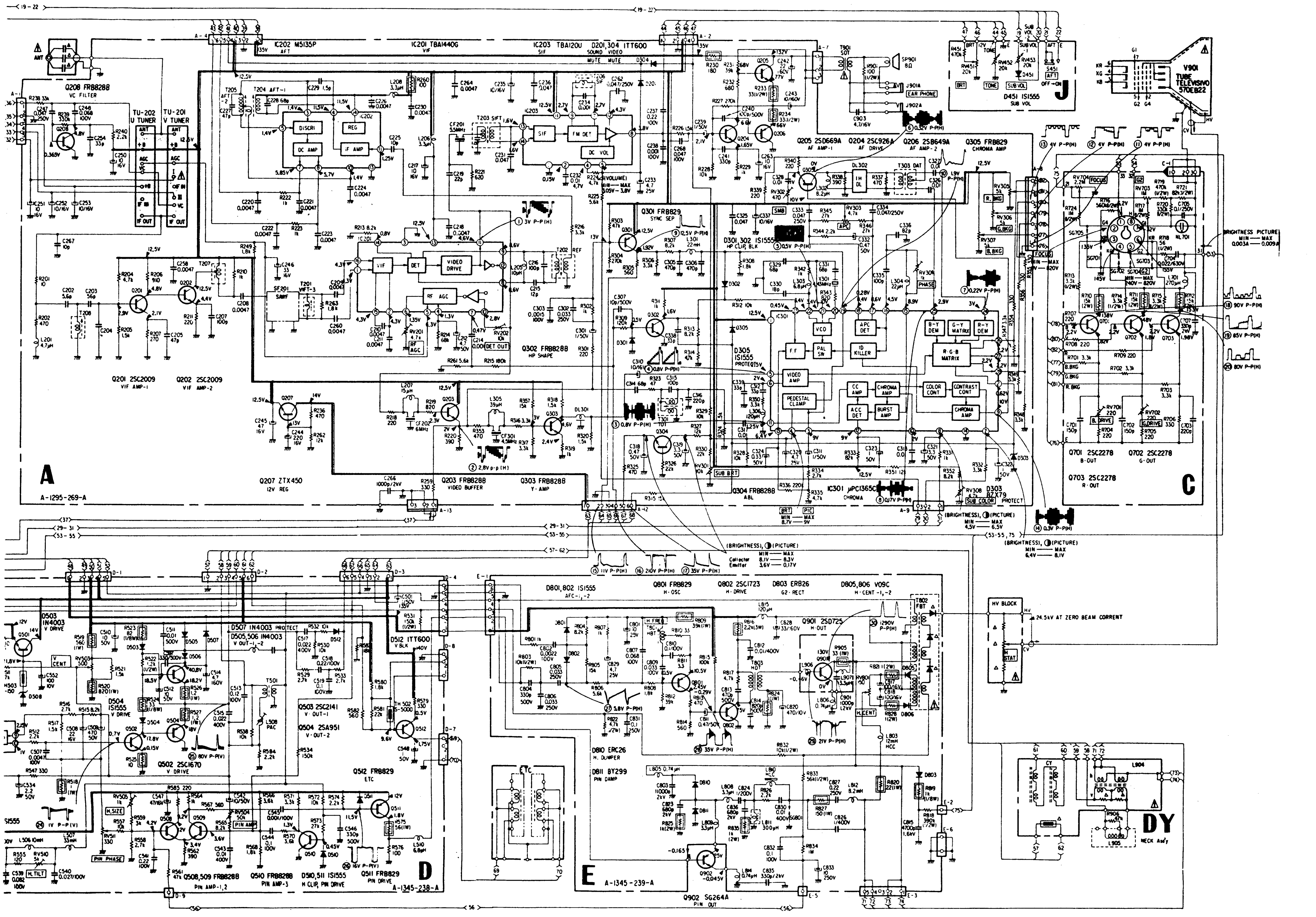
BLOCK DIAGRAM

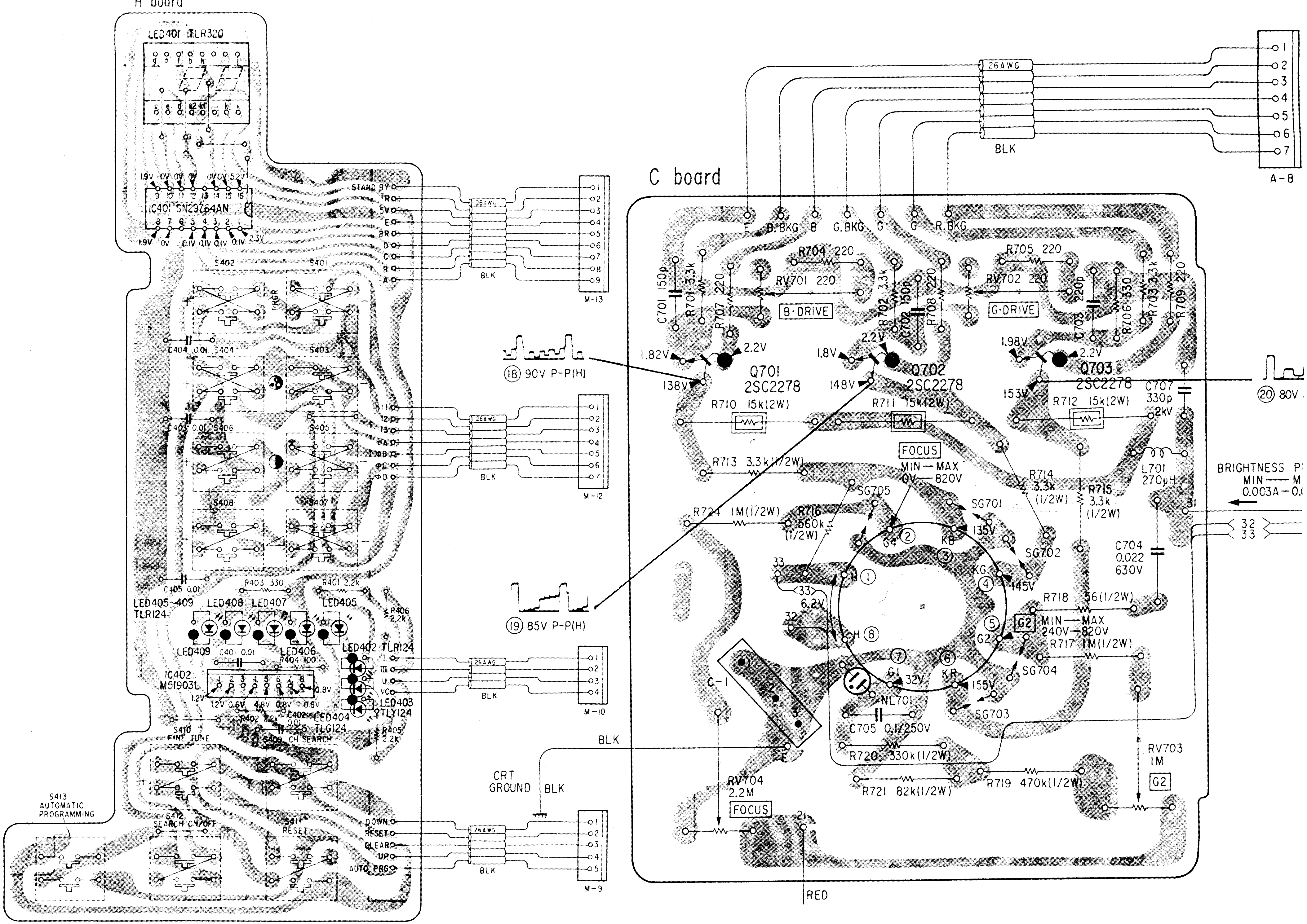


H
IR
STAND BY
LED401
5V
IC 401 LED DRIVE
5V BR D C B A
IND 1-5 LED405-409
BAND, I, U, 3 LED402-403
CH IND DRIVE IC-402
S401
S408
S409-S413
S401,402 prog ±
S403,404 ◑(COLOR ±)
S405,406 ◑(PICTORE ±)
S407,408 ⊿(VOLUME ±)
S409 CH SEARCH
S410 FINE TUNE
S411 RESET
S412 SEARCH ON/OFF
S413 AUTO MATIC PROGRAMING
X
D151
INFRARED RECIEVE AMP 1-4 Q151-154
AMP
J
BRIGHTNESS
R451
RV451
BRT
12V
RV452
TONE
12V
S901 POWER
M
IC001 REMOTE CONTROL RECEIVER
POWER
VSS
SI
AC
I1
I2
I3
ΦA
ΦB
ΦC
ΦD
OSC
OSC OUT
VDD
IR
RE
VP
DN
P0
P1
P2
P3
STAND BY
CALL
MUTE
VOL
PIX
COL
IC 004
IC003
IC002
IC004
1MHz OSC
IC005 CONTROLLER
MOD
CL
MCL
VSS
PWN
PWN-A
BD2
BD1
A
B
C
D
UP
DN
CL
AFT
PA
PON
TEST
C3
C2
C1
PATA
MUTE
MUTE Q014
AFT AMP Q12, Q013
REG Q05, D008
SEARCH STOP Q010
AFT SW Q011
IC007 PLL
PP
PCIOUT
CIN
VCOOUT
INH
C(11)
C(12)
VSS
VDD
Ze
SI
PIOUT
R2
R1
OEMOUT
VCOIN
IC006 16CH MEMORY
D
A
C1
C3
MCI
DATA
IC008
STAND BY Q001
VC ZENER D007
VC PWN Q005
BAND-UIII Q002-004
BAND SW D003-005
COLPIX
VOL
IC009
BEAT DETECTOR Q006
VIDEO BUFFER Q007
SYNC SEP Q008
A
ANT
VC FILTER Q208
TU-202 V TUNER
ANT
VC
IF OUT
AGC
VIF AMP-1,2 Q201, 202
VIF
RF AG
IC201
12V REG Q207
12V
+14V
F
L901,902 DGC
220 240V AC 50Hz
S901 POWER
T651 PT
12V RECT 1,2 D651, 652
12V REG Q651 D653
+12V
RECT D601-604
ERROR AMP Q601
REG ZENER D605
STAND-BY Q610
CLIP D613
PWM-1,-2 Q602, 603
D614
ESS -1,-2 Q608, 609
ESS DET D612
REG OUT Q605
T602 RDT
REG DRIVE Q604
ECL-1,-2 Q606, 607
B+ RECT D609
T603 SRT
33V RECT D642
14V RECT D643
5V RECT D644
-24V RECT D645
6.3V RECT D646
200V RECT D641
135V
33V
14V
5V
-24V
6.3V
200V
STAND BY
SYNC
DY
TRIGGER
V, OSC
V, AMP
IC501
V, OSC D501
12V REG Q501
+14V
135V
PROTECT D507
V, DRIVE Q502, D503, D504
V, OUT-1-2 Q503, 504 D505, 506
Y, BOW Q506
H, AMP Q507
BIAS D509
PIN AMP-1,-2 Q508, 509
PIN AMP-3 Q510
PIN DRIVE Q511, D511
H, CLIP D510


A
F
T
M
U
T
E
T
O
N
E
V
O
L
B
R
T
ANT
SOUND MUTE D201
AFT IC202
SIF IC203
AF AMP Q204
AF OUT-1,2 Q205,206
T901 SOT
SP901
J901A EARPHONE
J902A
VIDEO MUTE D304
VC FILTER Q208
TU-202 V TUNER
TU-201 V TUNER
IF OUT
AGC
VC
X301
CHROMA AMP Q305
VCO
APC DET
B-Y DEM
G-Y MATRIX
R-Y DEM
FF
PAL SW
ID KILER
VIF AMP-1,2 Q201,202
VIF
DET
VIDEO DRIVE
RF AGC
IC201
VIDEO DRIVE Q203
Y-AMP Q303
VIDEO AMP
SYNC SEP Q301
PEDESTAL CLAMP
R.G.B MATRIX
R.G.B
B.G.R OUT Q701-703
V901 PICTURE TUBE 570EB22
G2
HV
CV
C
CC AMP
CHROMA AMP
COLOR CONT
CONTRAST CONT
ACC DET
BURST AMP
CHROMA AMP
IC301
12V REG Q207
12V
+14V
HP, SHAPE Q302,D301
ABL Q304
M
A
HP
VC
SYNC
ABL
COL
PIC
ABL
V,OSC D501
+14V
12V REG Q501
135V
PROTECT D507
DY
V,DRIVE Q502,D503,D504
V,OUT-1-2 Q503,504 D505,506
ETC Q512
ETC
PIN AMP-1,-2 Q508,509
PIN AMP-3 Q510
PIN DRIVE Q511,D511
PIN OUT
H,CLIP D510
D
SYNC
AFC-1-2 D801,802
H,OSC Q801
H,DRIVE Q802
T803 HDT
H,OUT Q901
G2 RECT D803
G2
DYh
HV BLOCK
HV
CV
135V
H,DAMPER D810
H CENT-1,2 D805,806
PIN DAMP D811
PIN OUT Q902
T802 FBT
E
DY
DYh
DYv

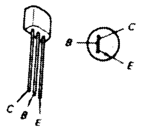

D151 PH302A INFRARED RECIEVE
Q151 2SK23A AMP-1
Q152 FRB8288 AMP-2
Q153 FRB829 AMP-3
Q154 BC237 AMP-4
A-1394-002-A
X
IC401 SN29764AN LED DRIVE
LED401 TLR320
S401-408
IC402 M51903L CH IND DRIVE
LED405-409 TLR124 INDI-1—5
LED402 TLR124 BAND I
LED404 TLG124 BAND U
LED403 TLY124 BAND 3
S409 CH SEARCH
S410 FINE TUNE
S411 RESET
S412 SEARCH ON/OFF
S413 AUTOMATIC PROGRAMING
H
Q001 FRB829 STAND BY
IC002 μPD4030C CODE COMPARATOR
IC004 μPD4069C OSC
IC005 CX760 CONTROLLER
Q014 FRB8288 MUTE
IC001 M58485P REMOCON RECEIVER
IC003 μPD4002C RA DET
Q012,013 FRB8288 AFT AMP
Q015 FRB829 REG
D001,002 1S1555 STOPPER
Q002-004 FRB829 BAND-U,I,III
D003-005 1S1555 BAND SW
Q005 2N3904 VC PWM
IC008 μPD4012C 16CH STOP
IC009 μPD4011C AUTO PROG
D007 μPD574J VC ZENER
Q006 FRB8288 BEAT DETECTOR
Q007 FRB8288 VIDEO BUFFER
Q008 FRB829 SYNC SEP
Q010 FRB829 SEARCH STOP
Q011 2SK23A AFT SW
IC006 CX761A 16CH MEMORY
IC007 MC14046 PLL
D008 BZX79
D009 1TT600
D009 1S1555
A-1306-014-A
M
(31) 15V P-P(H)
(33) 32V P-P(H)
(32) 32V P-P(H)
(34) 13V P-P(H)
(35) 32V P-P(H)
(36) 14V P-P(H)
(37) 0.25V P-P(H)
(38) 2V P-P(H)
F
D615 1N4003 PROTECT
Q603 FRB8288 PWM-2
Q604 2SC1670 REG DRIVE
Q605 BU500 REG OUT
D642, D643, D644, D646 RGP15J 33V, 14V, 5V, 6.3V RECT
D641 BA158 200V RECT
D605 RD12E-B2TP REG ZENER
D606 1S1555 R OSC
D601-604 BY253 RECT
Q601 FRB829 ERROR AMP
Q602 2SC634A PWM-1
Q606 2SA639S ECL-1
D609 BY299 +B RECT
Q608 FRB829 ESS-1
Q609 FRB8288 ESS-2
Q607 FRB8288 ECL-2
D645 1N4003 -25V RECT
D651,652 1N4003 12V RECT 1,2
Q651 ZTX450 12V REG
D653 RD13E-B2Z
Q610 FRB8288 STD BY
D613 1S1555 CLIP
D614 1S1555 STOPPER
D612 1S1555 ESS DET
A-1245-108-A
(22) 510V P-P(H)
(21) 88V P-P(H)
220V AC 60/50Hz
S901 POWER
BRIGHTNESS MIN 0.27A
PICTURE MAX 0.425A
135V ADJ
D501 1S1555 V OSC
Q501 2SC634A 12V REG
D508 RD12E-B2TP 12V REG
D503 1N4003 V DRIVE
IC501 CX157 V OSC
Q506 ZTX550 Y BOW
D509 1S1555 BIAS
Q507 2SC1670 H-AMP
(23) 11V P-P(V)
(24) 1V P-P(V)
V.HOLD
V.SIZE
Y.BOW
H.AMP
H.TILT
V CENT
A-1295-269-A
A
ANT
Q208 FR
VC FILT


19 - 22
IC202 M5135P AFT
IC201 TBA1440G VIF
IC203 TBA120U SIF
D201,304 ITT600 SOUND VIDEO
MUTE MUTE
Q208 FRB8288 VC FILTER
TU-202 U TUNER
TU-201 V TUNER
ANT
T204 AFT-1
T205 AFT-2
DISCRI
REG
DC AMP
IF AMP
CF201 5.5MHz
T203 SIFT
SIF
FM DET
DC VOL
T206 SIF
R224 4.7k (VOLUME)
MIN — MAX
0.05V — 3.8V
VIF
DET
VIDEO DRIVE
RF AGC
RV201 RF AGC
RV202 10k DET OUT
T201 VIFT-3
SF201 SAWF
T207
T208
T202 REF
Q201 2SC2009 VIF AMP-1
Q202 2SC2009 VIF AMP-2
Q207 ZTX450 12V REG
Q203 FRB8288 VIDEO BUFFER
Q303 FRB8288 Y-AMP
Q302 FRB8288 HP SHAPE
Q301 FRB829 SYNC SEP
CF202 6MHz
CF301 4.5MHz
DL301
A-1295-269-A
A
A-13
A-42
Q205 2SD669A AF AMP-1
Q204 2SC926A AF DRIVE
Q206 2SB649A AF AMP-2
Q305 FRB829 CHROMA AMP
T901 SOT
SP901 8Ω
J901A EAR PHONE
J902A
DL302
T303 DAT
1H DL
D301,302 IS1555 HP CLIP, BLK
D305 IS1555 PROTECT
X301 4.43MHz
IC301 μPC1365C CHROMA
Q304 FRB8288 ABL
F.F
VCO
PAL SW
APC DET
ID KILLER
PHASE
B-Y DEM
G-Y MATRIX
R-Y DEM
R·G·B MATRIX
VIDEO AMP
PEDESTAL CLAMP
CC AMP
ACC DET
CHROMA AMP
BURST AMP
COLOR CONT
CONTRAST CONT
SUB BRT
BRT
PIC
MIN — MAX
8.7V — 9V
RV308 SUB COLOR
D303 RZX79 PROTECT
A-9
(BRIGHTNESS), (PICTURE)
MIN — MAX
4.5V — 6.5V
6.4V — 8.1V
Collector 8.1V — 8.3V
Emitter 3.6V — 0.17V
R451 470k
RV451 20k BRT
RV452 20k TONE
RV453 20k SUB VOL
S451 AFT OFF → ON
D451 IS1555 SUB VOL
J
V901 TUBE TELEVISION 370EB22
KR KG KB G1 G2 G4 CV HV
FOCUS
RV704 FOCUS
RV703 G2
RV305 R. BKG
RV306 B. BKG
RV307 B. BKG
BRIGHTNESS PICTURE
MIN — MAX
0.003A — 0.009A
MIN — MAX
145V — 420V
240V — 820V
SG701 SG702 SG703 SG704 SG705
NL701
Q701 2SC2278 B-OUT
Q702 2SC2278 G-OUT
Q703 2SC2278 R-OUT
RV701 B. DRIVE
RV702 G. DRIVE
C
90V P-P(H)
85V P-P(H)
80V P-P(H)
D503 IN4003 V DRIVE
Q501
RV503 V CENT
D504 IS1555 V DRIVE
Q502 2SC1670 V DRIVE
D507 IN4003 PROTECT
D505,506 IN4003 V OUT-1, -2
Q503 2SC2141 V OUT-1
Q504 2SA951 V OUT-2
T501
L508 PAC
D512 ITT600 V BLK
TH502 5-5000
Q512 FRB829 ETC
RV505 H. SIZE
RV510 H. TILT
RV511 PIN PHASE
RV504 PIN AMP
Q508,509 FRB8288 PIN AMP-1, 2
Q510 FRB8288 PIN AMP-3
D510,511 IS1555 H CLIP, PIN DRIVE
Q511 FRB829 PIN DRIVE
A-1345-238-A
D
ETC
D801,802 IS1555 AFC-1, -2
Q801 FRB829 H. OSC
Q802 2SC1723 H. DRIVE
D803 ERB26 G2 · RECT
D805,806 V09C H. CENT -1, -2
Q901 2SD725 H. OUT
H. FREQ
T802 FBT
T801 HDT
RV801 H. CENT
D810 ERC26 H. DAMPER
D811 BY299 PIN DAMP
Q902 SG264A PIN OUT
L803 12mH HCC
A-1345-239-A
E
HV BLOCK
24.5kV AT ZERO BEAM CURRENT
STAT
CY
L904
L905
R906
DY
NECK Ass'y
① 3V P-P(H)
② 2.8V P-P(H)
③ 0.8V P-P(H)
④ 0.8V P-P(H)
⑤ 0.5V P-P(H)
⑥ 0.3V P-P(H)
⑦ 0.22V P-P(H)
⑧ 0.17V P-P(H)
⑨ 12.5V P-P(H)
⑩ 1.9V P-P(H)
⑪ 4V P-P(H)
⑫ 4V P-P(H)
⑬ 4V P-P(H)
⑭ 0.3V P-P(H)
⑮ 11V P-P(H)
⑯ 210V P-P(H)
⑰ 35V P-P(H)
⑱ 90V P-P(H)
⑲ 85V P-P(H)
⑳ 80V P-P(H)
㉔ 1V P-P(V)
㉕ 80V P-P(V)
㉖ 16V P-P(V)
㉗ 5.8V P-P(H)
㉘ 35V P-P(H)
㉙ 21V P-P(H)
㉚ 1290V P-P(H)

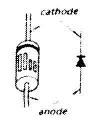

H board
LED401 TLR320
IC401 SN29764AN
1.9V 0V 0V 0V 0V 0V 5.2V
9 10 11 12 13 14 15 16
8 7 6 5 4 3 2 1
1.9V 0V 0.1V 0.1V 0.1V 0.1V 2.3V
STAND BY
TR
5V
E
BR
D
C
B
A
26AWG
BLK
M-13
S402
S401
PRGR
C404 0.01
S404
S403
I1
I2
I3
ΦA
ΦB
ΦC
ΦD
M-12
C403 0.01
S406
S405
S408
S407
C405 0.01
R403 330
R401 2.2k
R406 2.2k
LED405~409 TLR124
LED408
LED407
LED405
LED409
C401 0.01
LED406
R404 100
LED402 TLR124
IC402 M51903L
0.8V
1.2V
1.2V 0.6V 4.8V 0.8V 0.8V
R402 2.2k
C402 0.01
LED403 TLY124
LED404 TLG124
R405 2.2k
I
III
U
VC
M-10
S410 FINE TUNE
S409 CH SEARCH
S413 AUTOMATIC PROGRAMMING
S412 SEARCH ON/OFF
S411 RESET
DOWN
RESET
CLEAR
UP
AUTO PRG
M-9
⑱ 90V P-P(H)
⑲ 85V P-P(H)
BLK
CRT GROUND
BLK
RED
C board
A-8
E
B.BKG
B
G.BKG
G
G
R.BKG
R704 220
R705 220
C701 150p
R701 3.3k
R707 220
RV701 220
R702 3.3k
C702 150p
R708 220
RV702 220
220p
C703
R706 330
R703 3.3k
R709 220
B·DRIVE
G·DRIVE
1.82V
2.2V
Q701 2SC2278
138V
1.8V
2.2V
Q702 2SC2278
148V
1.98V
2.2V
Q703 2SC2278
153V
C707 330p 2kV
⑳ 80V
R710 15k(2W)
R711 15k(2W)
R712 15k(2W)
FOCUS MIN—MAX 0V—820V
R713 3.3k(1/2W)
R714 3.3k (1/2W)
R715 3.3k (1/2W)
L701 270μH
BRIGHTNESS P
MIN — M
0.003A—0.
31
32
33
SG705
SG701
R724 1M(1/2W)
R716 560k (1/2W)
G4 ②
KB
135V
③
SG702
C704 0.022 630V
33
H ①
<33>
6.2V
KG
④
145V
R718 56(1/2W)
32
H ⑧
⑤
G2
G2 MIN—MAX 240V—820V
R717 1M(1/2W)
⑦
⑥
G1
32V
KR
155V
SG704
C-1
1
2
3
NL701
C705 0.1/250V
SG703
E
R720 330k(1/2W)
R721 82k(1/2W)
R719 470k(1/2W)
RV703 1M
G2
RV704 2.2M
FOCUS
21

Q	D	ADJ
602.		
610	613	RV601
603 608	605	
601	606	
609		
	612	
04	615	
607		
	614	
606	609	
	641	
	646	
605		
	645	
	642	
	643	
	644	
	653	
651		
	652	
	651	
	602	
	604	
	601	
	603	
Q	D	ADJ

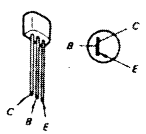
FRB828B



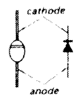
EQB01-12Z
EQB01-13


cathode
anode

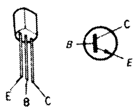
FRB829



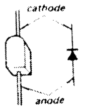
GH3F
U05G


cathode
anode

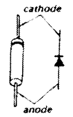
ZTX450



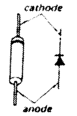
HF1A


cathode
anode

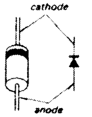
10E2
1S1555

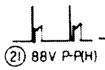

cathode
anode

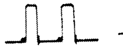
RD12E-B2TP
RD13E-82Z
RD39E-84TP
RD39E-84TZ

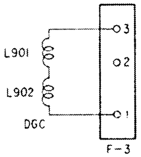

cathode
anode

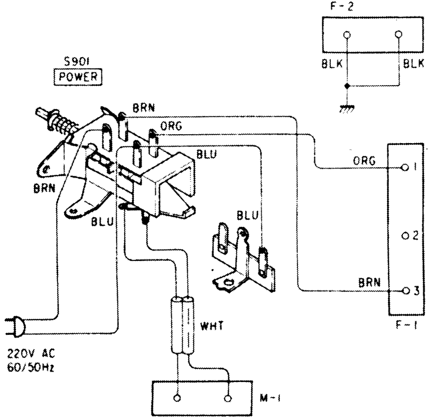
1N4003
BA158
BY253
BY299
RGP15J


cathode
anode

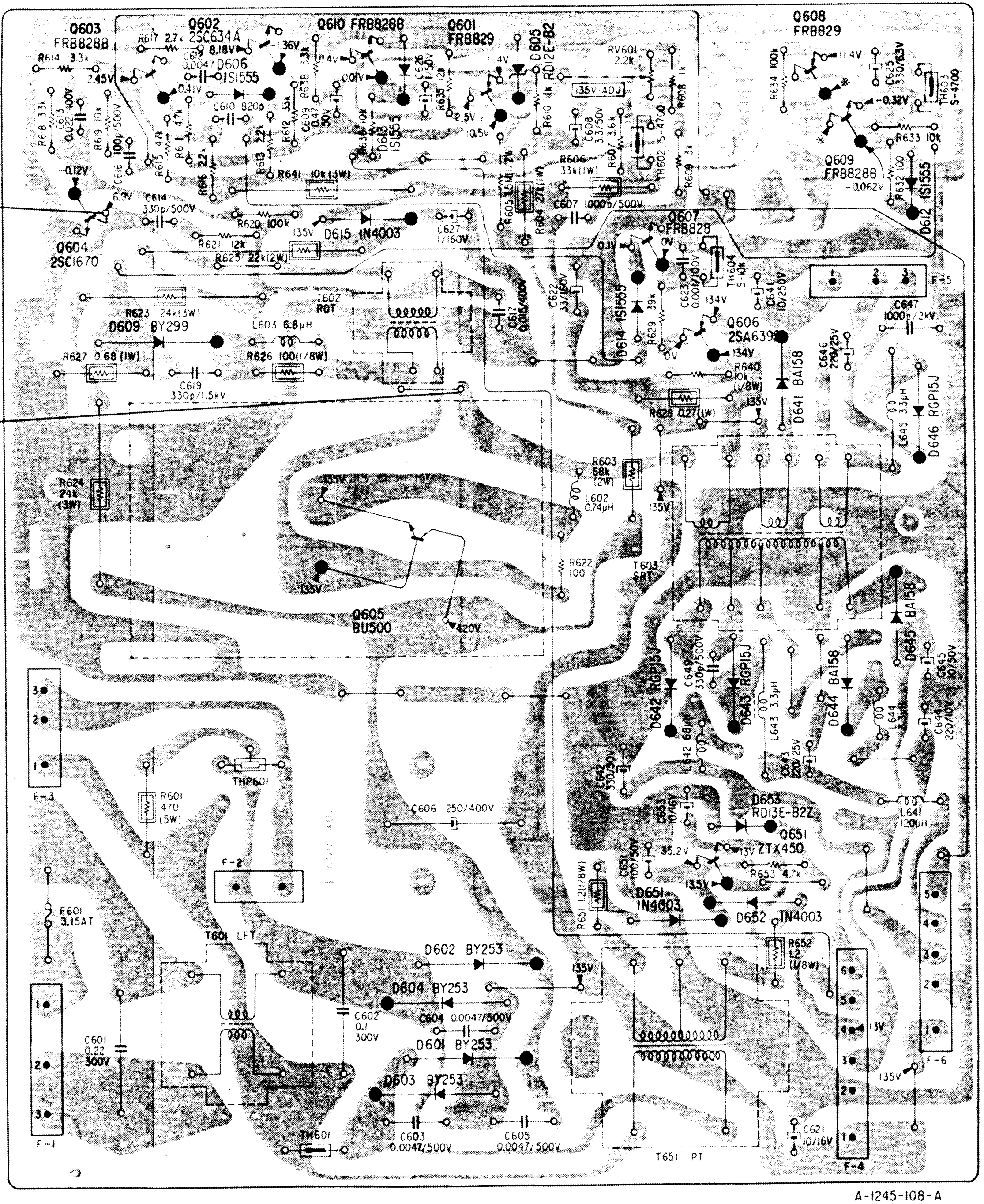

㉑ 88V P-P(H)


㉒ 510V P-P(H)

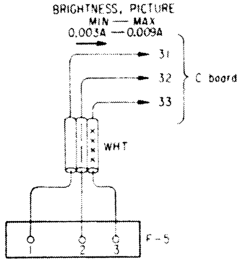

L901
L902
DGC
3
2
1
F-3

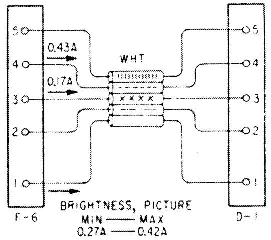

F-2
BLK
BLK
S901
POWER
BRN
ORG
BLU
BRN
BLU
BLU
ORG
BRN
WHT
1
2
3
F-1
220V AC
60/50Hz
M-1

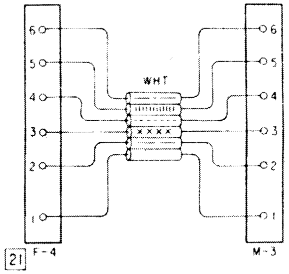
F board


Q603
FRB828B
Q602
2SC634A
Q610 FRB828B
Q601
FRB829
D605
RD12E-B2
Q608
FRB829
R617 2.7k
R614 3.3k
2.45V
8.18V
136V
D606
1S1555
C610 820p
RV601
2.2k
135V ADJ
R634 100k
11.4V
C625 330/6.3V
TH603 S-4700
-0.32V
R633 10k
Q609
FRB828B
-0.062V
D612 1S1555
D613 1S1555
R641 10k(3W)
R606 33k(1W)
C607 1000p/500V
Q604
2SC1670
-0.12V
6.9V
C614 330p/500V
R620 100k
R621 12k
R625 22k(2W)
135V
D615 1N4003
C627 1/160V
Q607
FRB829
TH604 S-10k
F-5
C647 1000p/2kV
R623 24k(3W)
T602 ROT
D609 BY299
L603 6.8μH
R627 0.68(1W)
R626 100(1/8W)
C619 330p/1.5kV
C617 0.015/400V
C622 33/160V
D614 1S1555
R629 39k
C623 0.001/100V
134V
C641 10/250V
Q606
2SA639
134V
R640 10k (1/8W)
R628 0.27(1W)
135V
D641 BA158
C646 220/25V
L645 3.3μH
D646 RGP15J
R603 68k (2W)
L602 0.74μH
135V
R624 24k (3W)
R622 100
T603 SRT
135V
135V
Q605
BU500
420V
D648 BA158
C648 330p/500V
D642 RGP15J
D643 RGP15J
L642 68μH
L643 3.3μH
D644 BA158
L644
C645 10/50V
C644 220/10V
C642 330/50V
C643 220/25V
3
2
1
F-3
THP601
R601 470 (5W)
C606 250/400V
C653 10/16V
D653 RD13E-B2Z
L641 120μH
Q651
ZTX450
35.2V
13V
R653 4.7k
C651 100/50V
R651 1.2(1/8W)
13.5V
D651 1N4003
D652 1N4003
F601 3.15AT
F-2
T601 LFT
D602 BY253
135V
D604 BY253
C604 0.0047/500V
R652 12 (1/8W)
C601 0.22 300V
C602 0.1 300V
D601 BY253
D603 BY253
13V
135V
F-6
TH601
C603 0.0047/500V
C605 0.0047/500V
T651 PT
C621 10/16V
1
2
3
F-1
6
5
4
3
2
1
F-4

A-1245-108-A

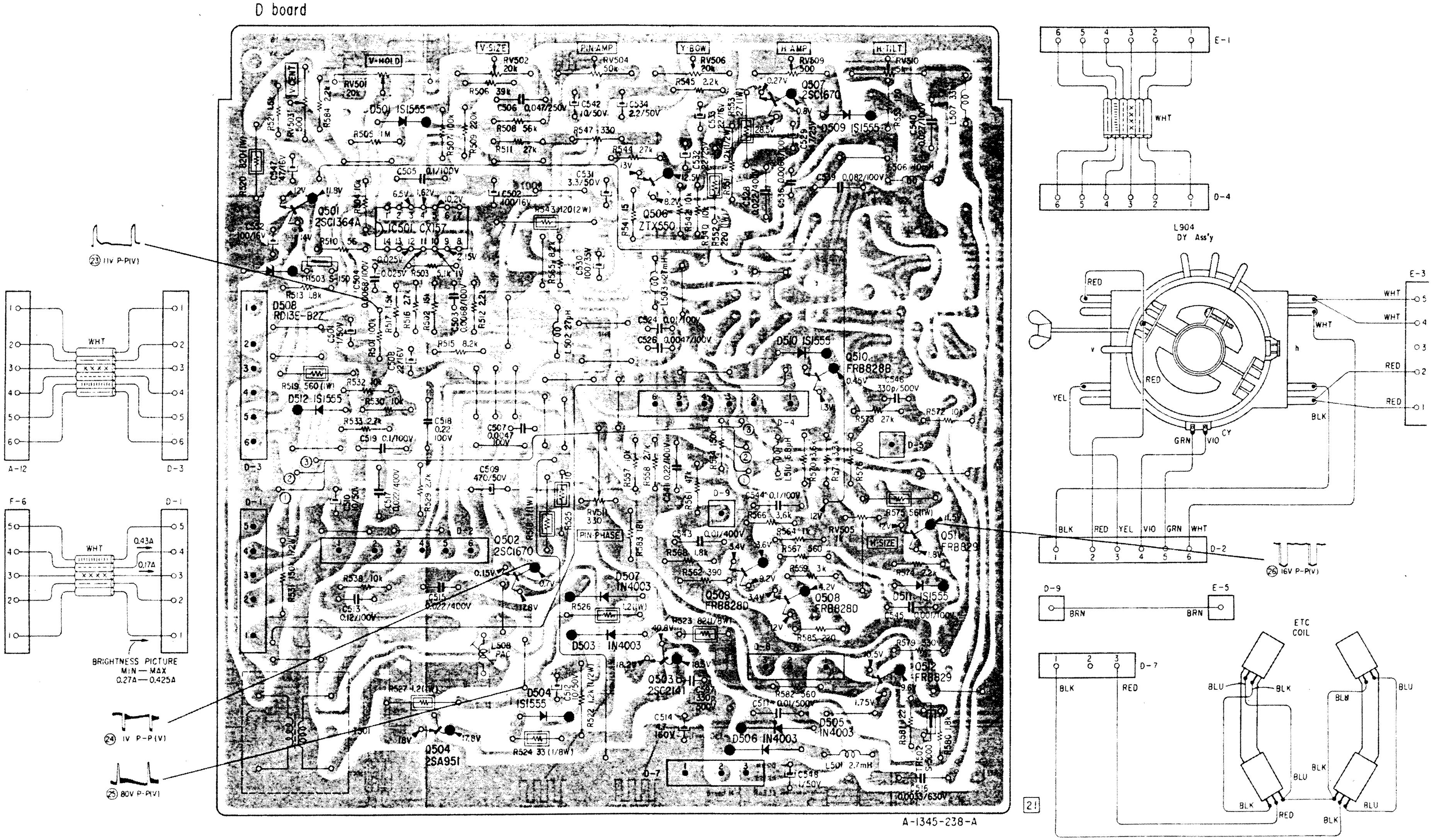

BRIGHTNESS, PICTURE
MIN — MAX
0.003A — 0.009A
31
32
33
C board
WHT
1
2
3
F-5


5
4
3
2
1
0.43A
0.17A
WHT
5
4
3
2
1
F-6
BRIGHTNESS, PICTURE
MIN — MAX
0.27A — 0.42A
D-1

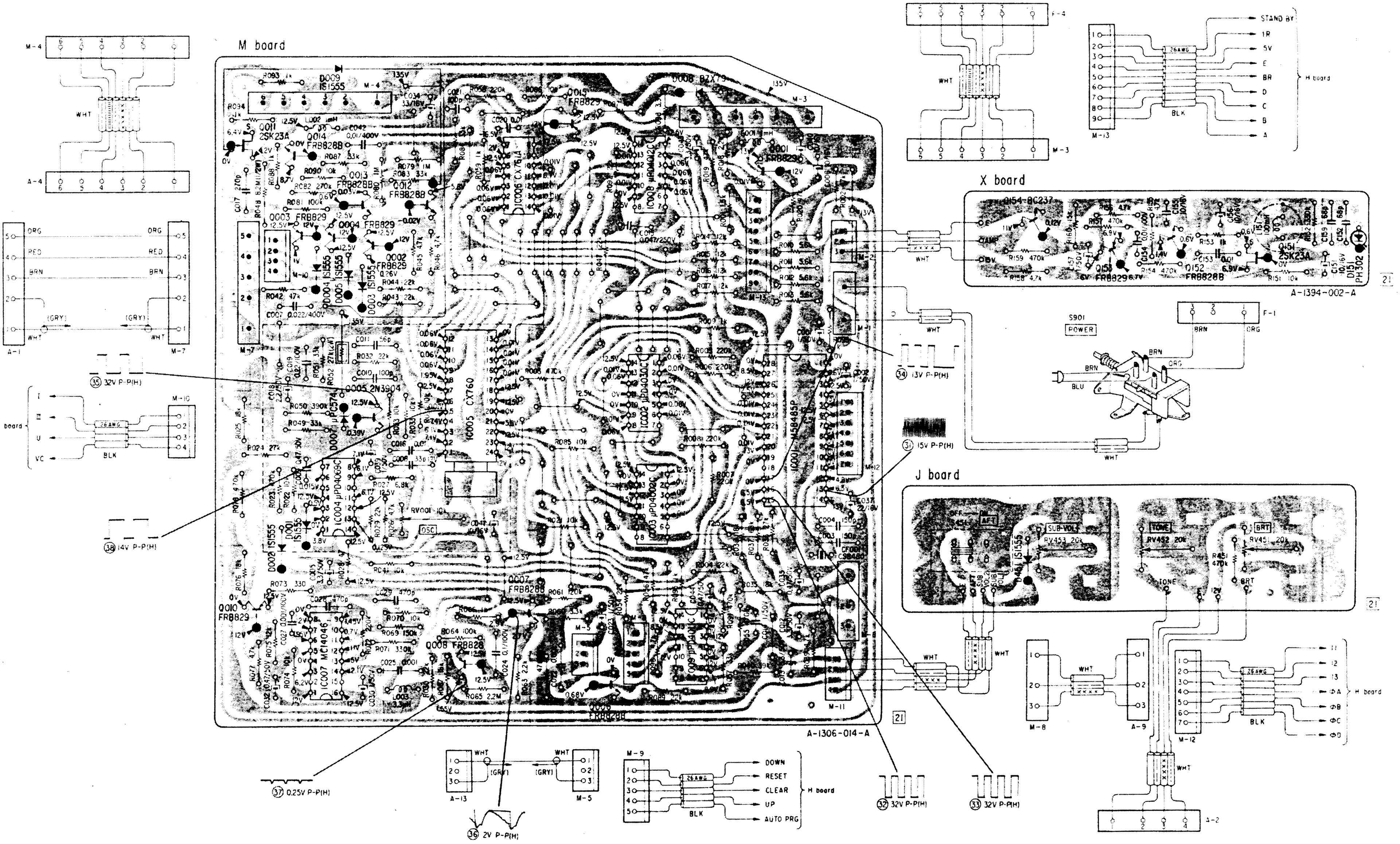

6
5
4
3
2
1
WHT
6
5
4
3
2
1
F-4
M-3

㉑

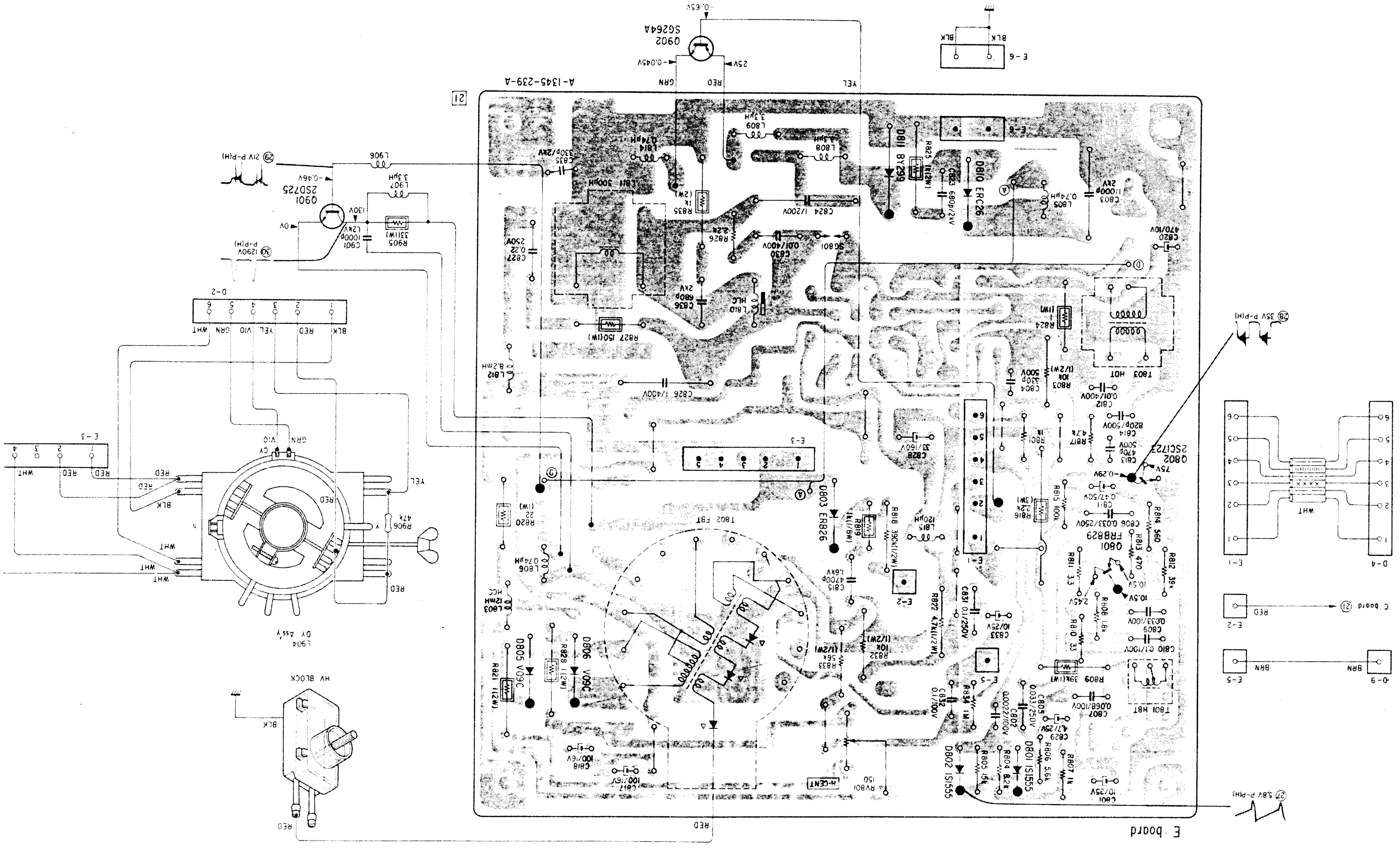
IC, Q	D	ADJ
		RV503
		RV501
		RV502
		RV504
507	509	
		RV506
	501	RV509
		RV510
506		
501		
IC501		
	508	
	510	
510		
	512	
		RV511
		RV505
511		
509		
502		
508	511	
	507	
	503	
503		
512		
	504	
504	505	
	506	
IC, Q	D	ADJ


D board
V-HOLD
V-SIZE
PIN-AMP
Y BOW
H-AMP
H-TILT
V-CENT
PIN-PHASE
H-SIZE
RV501 20k
RV502 20k
RV504 50k
RV506 20k
RV509 500
RV510
RV503 500
RV505
RV511 330
Q501 2SC1364A
IC501 CX157
Q502 2SC1670
Q503 2SC2141
Q504 2SA951
Q506 ZTX550
Q507 2SC1670
Q508 FR8828D
Q509 FR8828D
Q510 FR8828B
Q511 FR8829
Q512 FR8829
D501 1S1555
D503 1N4003
D504 1S1555
D505 1N4003
D506 1N4003
D507 1N4003
D508 RD13E-B2Z
D509 1S1555
D510 1S1555
D511 1S1555
D512 1S1555
L502 27μH
L507 33μH
L501 2.7mH
L508 PAC
T501
TH503
A-1345-238-A
㉓ 11V P-P(V)
㉔ 1V P-P(V)
㉕ 80V P-P(V)
㉖ 16V P-P(V)
A-12
D-3
F-6
D-1
D-2
D-4
D-7
D-9
E-1
E-3
E-5
WHT
0.43A
0.17A
BRIGHTNESS PICTURE
MIN — MAX
0.27A — 0.425A
L904
DY Ass'y
RED
WHT
YEL
BLK
GRN
VIO
CY
BRN
BLU
ETC COIL
21

IC , Q	D	ADJ
	009	
	008	
015		
011		
014		
001		
IC006		
IC008		
013		
012		
003	151	
004		
002		
	004	
154	005	
153	003	
152		
151		
IC005		
IC002		
005	007	
IC001		
IC004		
IC003		
	001	RV001
		RV453
	002	RV452
	451	RV451
010		
007		
IC007		
IC009		
008		
006		
IC , Q	D	ADJ



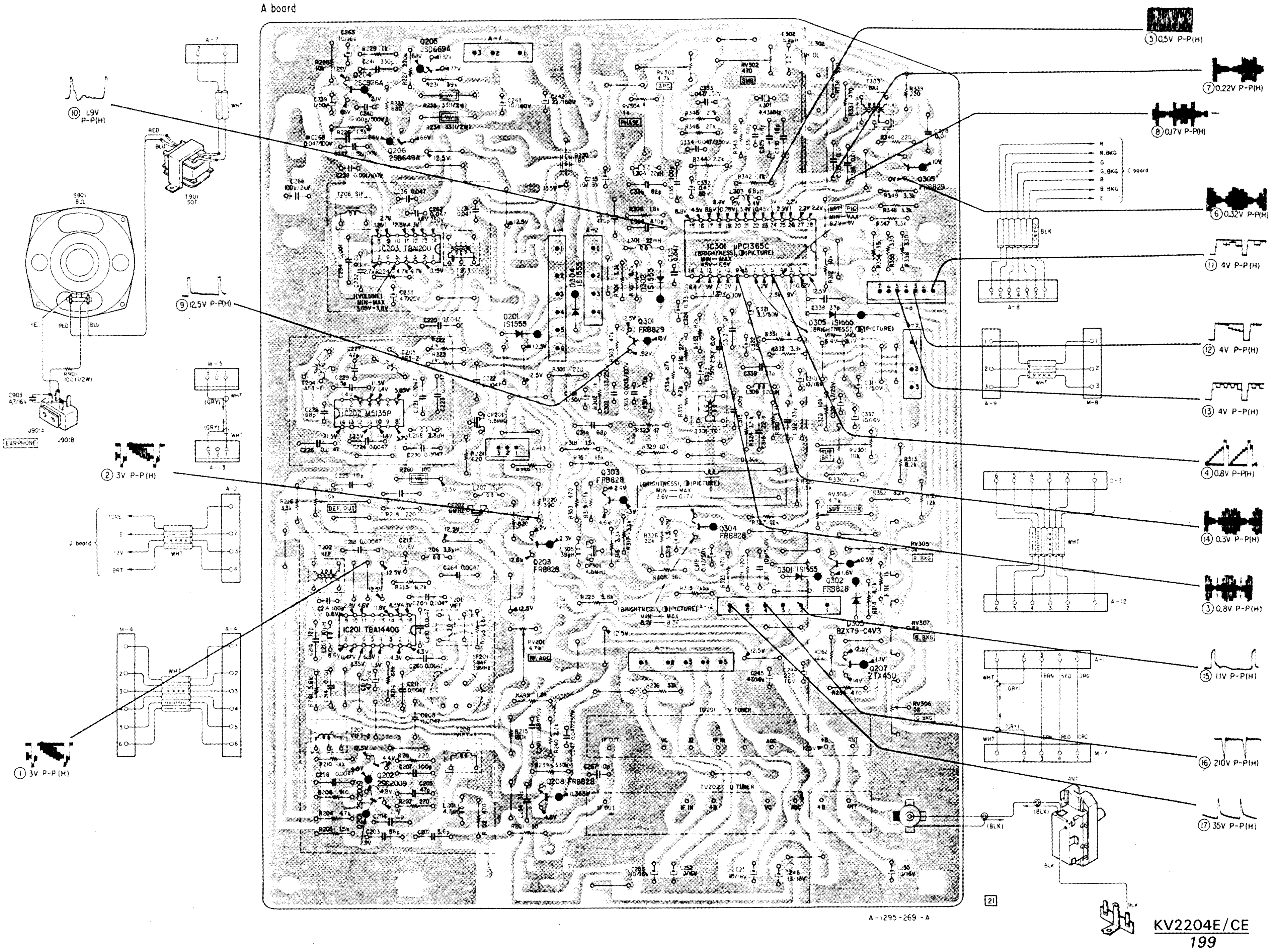
M board
A-1306-014-A
21
X board
A-1394-002-A
J board
IC005 CX760
IC001 M58485P
IC002 µPD4030C
IC003 µPD4030C
IC004 µPD4069C
IC006 CX761A
IC007 MC14046
IC008 µPD4012C
IC009 µPD4011C
Q001 FRB829
Q002 FRB829
Q003 FRB829
Q004 FRB829
Q005 2N3904
Q006 FRB828B
Q007 FRB828B
Q008 FRB828
Q010 FRB829
Q011 2SK23A
Q012 FRB828B
Q013
Q014 FRB828B
Q015 FRB829
D001 µPC574J
D002 1S1555
D003 1S1555
D004 1S1555
D005 1S1555
D008 BZX79
D009 1S1555
Q151 2SK23A
Q152 FRB828B
Q153 FRB829
Q154 BC237
D151 PH302
D451 1S1555
RV451 20k
RV452 20k
RV453 20k
BRT
TONE
SUB-VOL
AFT
OFF
OSC
S901
POWER
F-1
F-4
M-3
M-4
A-4
A-1
M-7
M-10
M-13
M-9
M-5
A-13
M-8
A-9
M-12
A-2
WHT
BLK
BRN
ORG
BLU
RED
(GRY)
26AWG
H board
STAND BY
1R
5V
E
BR
D
C
B
A
DOWN
RESET
CLEAR
UP
AUTO PRG
I
II
U
VC
I1
I2
I3
ΦA
ΦB
ΦC
ΦD
135V
31 15V P-P(H)
32 32V P-P(H)
33 32V P-P(H)
34 13V P-P(H)
35 32V P-P(H)
36 2V P-P(H)
37 0.25V P-P(H)
38 14V P-P(H)


E board
A-1345-239-A
21
Q902 SG264A
Q901 2SD725
T802 FBT
T803 HOT
T801 HBT
D810 ERC26
D811 BY229
D803 ER826
D805 V09C
D806 V09C
D801 1S1555
D802 1S1555
Q801 FRB829
Q802 2SC1723
RV801 H-CENT
L904 DY Ass'y
HV BLOCK
E-1
E-2
E-3
E-5
E-6
D-2
D-4
D-9
C board 21

Q	D	ADJ
902		
	811 810	
901		
802	803	
801		
	805 806	
	802 801	RV801

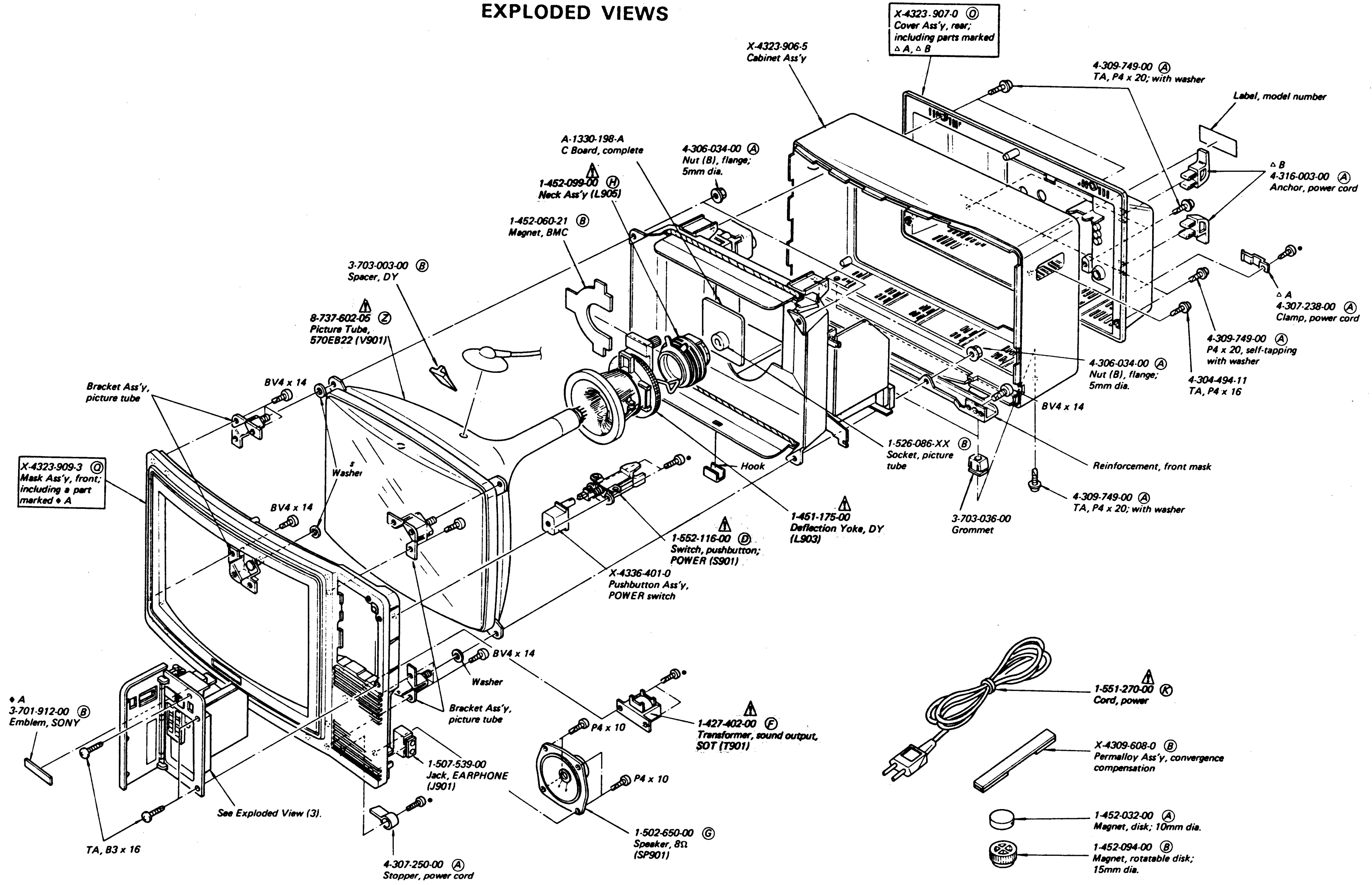
IC, Q	D	ADJ
		RV302
205		RV303
204		
		RV304
206		
305		
IC203		
IC301		
	302	
	305	
	304	
	201	
301		
IC202		
		RV301
303		RV202
		RV308
304		
203		RV305
302		
	301	
	303	
IC201		RV201
		RV307
207		
		RV306
202		
201		
208		
IC, Q	D	ADJ

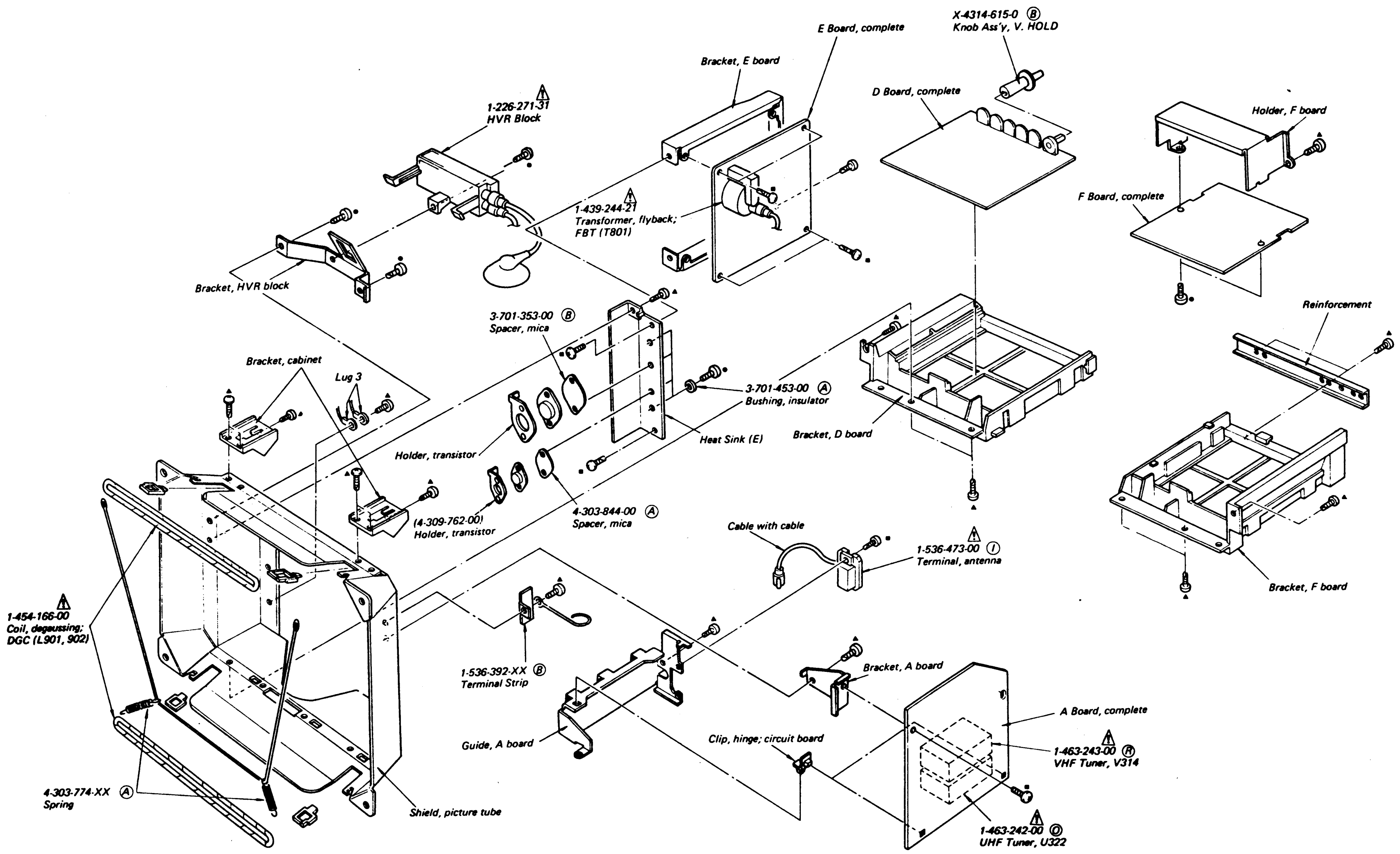
A board

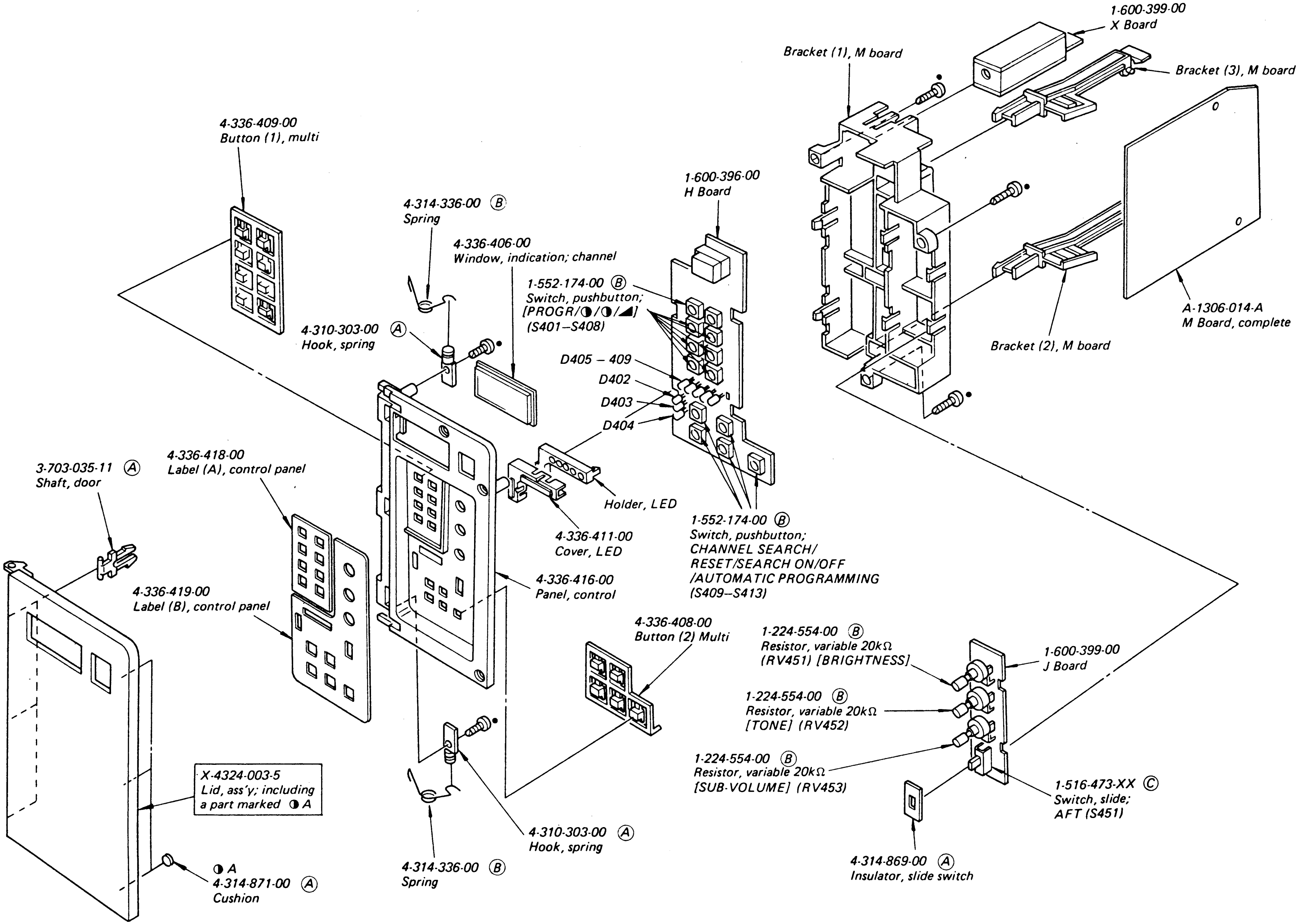


⑤ 0.5V P-P(H)
⑦ 0.22V P-P(H)
⑧ 0.17V P-P(H)
⑥ 0.32V P-P(H)
⑪ 4V P-P(H)
⑫ 4V P-P(H)
⑬ 4V P-P(H)
④ 0.8V P-P(H)
⑭ 0.3V P-P(H)
③ 0.8V P-P(H)
⑮ 11V P-P(H)
⑯ 210V P-P(H)
⑰ 35V P-P(H)
⑩ 1.9V P-P(H)
⑨ 12.5V P-P(H)
② 3V P-P(H)
① 3V P-P(H)
IC301 μPC1365C
IC203 TBA120U
IC202 M5135P
IC201 TBA1440G
Q205 2SD669A
Q204 2SC926A
Q206 2SB649A
Q301 FR8829
Q305 FR8829
Q303 FR8828
Q203 FR8828
Q304 FR8828
Q302 FR8828
Q207 ZTX450
Q208 FR8828
Q202 2SC2009
D305 BZX79-C4V3
D301 1S1555
D201 1S1555
D304 1S1555
D302 1S1555
D303 1S1555
TU201 V TUNER
TU202 U TUNER
T206 SIF
T205 AFT-2
T204 AFT-1
T202 REF
T207 VIF1-2
T208
T201 VIFT
T301 TOT
T303 OAT
SF201 SAWF 38MHz
CF201 5.5MHz
CF202 6MHz
CF301 4.4MHz
X301 4.43MHz
S901 8Ω
T901 SOT
J901A
J901B
EARPHONE
C903 4.7/16V
R901 10Ω (1/2W)
RV302 470 SMB
RV303 4.7k APC
RV304 1k PHASE
RV201 4.7k RF AGC
RV305 R.BKG
RV307 B.BKG
RV306 G.BKG
RV308 4.7k SUB COLOR
RV301 10k SUB BRT
(VOLUME) MIN-MAX 5.05V-1.8V
(BRIGHTNESS), (PICTURE) MIN—MAX
DEF. OUT
A-7
A-1
A-4
A-2
A-3
A-6
A-8
A-9
M-8
A-12
D-3
A-13
M-5
M-4
A-11
M-7
J board
TONE
E
12V
BRT
R
R.BKG
G
G.BKG
B
B.BKG
E
C board
WHT
RED
BLU
YEL
BLK
GRY
BRN
ORG
ANT
(BLK)
IF OUT
VC
IF IN
AGC
+B
21
A-1295-269-A

EXPLODED VIEWS


X-4323-907-0 Ⓞ
Cover Ass'y, rear; including parts marked △A, △B
X-4323-906-5
Cabinet Ass'y
4-309-749-00 Ⓐ
TA, P4 x 20; with washer
Label, model number
△B
4-316-003-00 Ⓐ
Anchor, power cord
A-1330-198-A
C Board, complete
4-306-034-00 Ⓐ
Nut (B), flange; 5mm dia.
⚠
1-452-099-00 Ⓗ
Neck Ass'y (L905)
1-452-060-21 Ⓑ
Magnet, BMC
△A
4-307-238-00 Ⓐ
Clamp, power cord
3-703-003-00 Ⓑ
Spacer, DY
⚠
8-737-602-05 Ⓩ
Picture Tube, 570EB22 (V901)
4-309-749-00 Ⓐ
P4 x 20, self-tapping with washer
4-306-034-00 Ⓐ
Nut (B), flange; 5mm dia.
4-304-494-11
TA, P4 x 16
BV4 x 14
Bracket Ass'y, picture tube
BV4 x 14
1-526-086-XX Ⓑ
Socket, picture tube
Reinforcement, front mask
X-4323-909-3 Ⓠ
Mask Ass'y, front; including a part marked ◆A
Washer
Hook
4-309-749-00 Ⓐ
TA, P4 x 20; with washer
BV4 x 14
⚠
1-451-175-00
Deflection Yoke, DY (L903)
3-703-036-00
Grommet
⚠
1-552-116-00 Ⓓ
Switch, pushbutton; POWER (S901)
X-4336-401-0
Pushbutton Ass'y, POWER switch
BV4 x 14
Washer
⚠
1-551-270-00 Ⓚ
Cord, power
Bracket Ass'y, picture tube
◆A
3-701-912-00 Ⓑ
Emblem, SONY
P4 x 10
⚠
1-427-402-00 Ⓕ
Transformer, sound output, SOT (T901)
X-4309-608-0 Ⓑ
Permalloy Ass'y, convergence compensation
1-507-539-00
Jack, EARPHONE (J901)
P4 x 10
See Exploded View (3).
1-502-650-00 Ⓖ
Speaker, 8Ω (SP901)
1-452-032-00 Ⓐ
Magnet, disk; 10mm dia.
1-452-094-00 Ⓑ
Magnet, rotatable disk; 15mm dia.
TA, B3 x 16
4-307-250-00 Ⓐ
Stopper, power cord


E Board, complete
X-4314-615-0 Ⓑ
Knob Ass'y, V. HOLD
Bracket, E board
D Board, complete
Holder, F board
⚠
1-226-271-31
HVR Block
⚠
1-439-244-21
Transformer, flyback;
FBT (T801)
F Board, complete
Bracket, HVR block
3-701-353-00 Ⓑ
Spacer, mica
Reinforcement
Bracket, cabinet
Lug 3
3-701-453-00 Ⓐ
Bushing, insulator
Holder, transistor
Heat Sink (E)
Bracket, D board
(4-309-762-00)
Holder, transistor
4-303-844-00 Ⓐ
Spacer, mica
Cable with cable
⚠
1-536-473-00 Ⓘ
Terminal, antenna
Bracket, F board
⚠
1-454-166-00
Coil, degaussing;
DGC (L901, 902)
1-536-392-XX Ⓑ
Terminal Strip
Bracket, A board
A Board, complete
Guide, A board
Clip, hinge; circuit board
⚠
1-463-243-00 Ⓡ
VHF Tuner, V314
4-303-774-XX Ⓐ
Spring
Shield, picture tube
⚠
1-463-242-00 Ⓞ
UHF Tuner, U322


1-600-399-00
X Board
Bracket (1), M board
Bracket (3), M board
4-336-409-00
Button (1), multi
1-600-396-00
H Board
4-314-336-00 Ⓑ
Spring
4-336-406-00
Window, indication; channel
1-552-174-00 Ⓑ
Switch, pushbutton;
[PROGR/◑/◑/◢]
(S401–S408)
4-310-303-00 Ⓐ
Hook, spring
D405 – 409
D402
D403
D404
A-1306-014-A
M Board, complete
Bracket (2), M board
4-336-418-00
Label (A), control panel
3-703-035-11 Ⓐ
Shaft, door
Holder, LED
4-336-411-00
Cover, LED
1-552-174-00 Ⓑ
Switch, pushbutton;
CHANNEL SEARCH/
RESET/SEARCH ON/OFF
/AUTOMATIC PROGRAMMING
(S409–S413)
4-336-419-00
Label (B), control panel
4-336-416-00
Panel, control
4-336-408-00
Button (2) Multi
1-224-554-00 Ⓑ
Resistor, variable 20kΩ
(RV451) [BRIGHTNESS]
1-600-399-00
J Board
1-224-554-00 Ⓑ
Resistor, variable 20kΩ
[TONE] (RV452)
1-224-554-00 Ⓑ
Resistor, variable 20kΩ
[SUB-VOLUME] (RV453)
X-4324-003-5
Lid, ass'y; including
a part marked ◑ A
1-516-473-XX Ⓒ
Switch, slide;
AFT (S451)
4-310-303-00 Ⓐ
Hook, spring
◑ A
4-314-871-00 Ⓐ
Cushion
4-314-336-00 Ⓑ
Spring
4-314-869-00 Ⓐ
Insulator, slide switch

ELECTRICAL PARTS LIST

TUNERS AND CIRCUIT BOARDS

Ref. No.	*Part No.*	*Description*
TU201	⚠1-463-243-11	Ⓡ VHF Tuner, V314
TU202	⚠1-463-242-11	Ⓟ UHF Tuner, U322
	1-600-396-00	H Board
	1-600-397-00	J Board
	A-1245-108-A	F Board, complete
	A-1295-269-A	A Board, complete
	A-1306-014-A	M Board, complete
	A-1330-198-A	C Board, complete
	A-1345-238-A	D Board, complete
	A-1345-239-A	E Board, complete
	A-1394-002-A	X Board, complete

SEMICONDUCTORS

Transistors

Ref. No.	*Part No.*	*Description*
⇒ Q001–004	8-729-612-77	Ⓑ 2SA1027R
Q005	8-729-139-04	Ⓑ 2N3904
⇒ Q006, 007	8-729-663-47	Ⓒ 2SC1364
⇒ Q008	8-729-612-77	Ⓑ 2SA1027R
Q010	8-729-612-77	Ⓑ 2SA1027R
Q011	8-722-381-20	Ⓒ 2SK23A
⇒ Q012–014	8-729-663-47	Ⓒ 2SC1364
⇒ Q015	8-729-612-77	Ⓑ 2SA1027R
Q151	8-722-381-20	Ⓒ 2SK23A
⇒ Q152	8-729-663-47	Ⓒ 2SC1364
⇒ Q153	8-729-612-77	Ⓑ 2SA1027R
⇒ Q154	8-729-663-47	Ⓒ 2SC1364
Q201, 202	8-765-300-00	Ⓑ 2SC2009
⇒ Q203	8-729-663-47	Ⓒ 2SC1364
Q204	8-720-950-30	2SC926A
Q205	8-729-306-92	Ⓒ 2SD669A
Q206	8-729-304-92	Ⓒ 2SB649A
⇒ Q207	8-729-663-47	Ⓒ 2SC1364
⇒ Q208	8-729-663-47	Ⓒ 2SC1364
⇒ Q301	8-729-612-77	Ⓑ 2SA1027R
⇒ Q302–304	8-729-663-47	Ⓓ 2SC1364
Q305	8-729-612-77	Ⓑ 2SA1027R
⇒ Q501	8-729-663-47	Ⓒ 2SC1364
⇒ Q502	8-765-170-01	Ⓔ 2SC1962
Q503	8-765-500-00	2SC2141
Q504	8-765-510-00	Ⓒ 2SA951
⇒ Q506	8-729-468-43	Ⓒ 2SA684
⇒ Q507	8-765-170-01	Ⓔ 2SC1962
⇒ Q508–510	8-729-663-47	Ⓒ 2SC1364
⇒ Q511, 512	8-729-612-77	Ⓑ 2SA1027R
⇒ Q601	8-729-612-77	Ⓑ 2SA1027R
⇒ Q602	8-729-663-47	Ⓒ 2SC1364
⇒ Q603	8-729-663-47	Ⓒ 2SC1364
⇒ Q604	8-765-170-01	Ⓔ 2SC1962
⇒ Q605	8-729-301-32	2SC1413A
Q606	8-729-163-93	Ⓒ 2SA639S
⇒ Q607	8-729-663-47	Ⓒ 2SC1364
⇒ Q608	8-729-612-77	Ⓑ 2SA1027R
⇒ Q609, 610	8-729-663-47	Ⓒ 2SC1364
Q651	8-729-157-11	Ⓑ 2SD571
Q701–703	8-729-322-78	Ⓒ 2SC2278
⇒ Q801	8-729-612-77	Ⓑ 2SA1027R
Q802	8-729-372-31	2SC1723
Q901	8-729-372-51	2SD725
Q902	8-726-420-00	Ⓗ SG264A

ICs

Ref. No.	*Part No.*	*Description*
IC001	8-759-684-85	M58485P
IC002	8-759-140-30	μPD4030C
IC003	8-759-140-02	μPD4002C
IC004	8-759-140-69	μPD4069C
IC005	8-757-600-00	CX760
IC006	8-757-610-00	CX761A
IC007	8-759-040-46	MC140468CP
IC008	8-759-140-12	μPD4012C
IC009	8-759-140-11	μPD4011C
IC201	8-759-014-40	TBA1440G
IC202	8-759-651-35	Ⓗ M5135P
IC203	8-759-001-20	TBA120U
IC301	8-759-113-65	μPC1365C
IC401	8-759-997-64	Ⓖ SN29764N
IC402	8-759-619-03	M51903L
IC501	8-751-570-00	Ⓕ CX157

Diodes

Ref. No.	*Part No.*	*Description*
D001–005	8-719-815-55	Ⓑ 1S1555
D007	8-759-157-40	Ⓔ μPC574J
⇒ D008	8-719-191-07	Ⓑ RD9.1E
D151	8-729-103-03	PH302A
D201	8-719-815-55	Ⓑ 1S1555
D301, 302	8-719-815-55	Ⓑ 1S1555
⇒ D303	8-719-143-07	RD4.3E
D304, 305	8-719-815-55	Ⓑ 1S1555
D451	8-719-815-55	Ⓑ 1S1555
D501	8-719-815-55	Ⓑ 1S1555
⇒ D503	8-719-200-02	Ⓑ 10E2
D504	8-719-815-55	Ⓑ 1S1555
⇒ D505–507	8-719-200-02	Ⓑ 10E2
⇒ D508	8-719-930-12	Ⓑ EQB01-12Z
D509–512	8-719-815-55	Ⓑ 1S1555
⇒ D601–604	8-719-911-55	Ⓑ U05G
⇒ D605	8-719-930-12	Ⓑ EQB01-12Z
D606	8-719-815-55	Ⓑ 1S1555
⇒ D609	8-719-305-15	Ⓓ GH-3F
D610	8-719-815-55	Ⓑ 1S1555
D611	8-719-139-27	RD39E-B4Z
D612–614	8-719-815-55	Ⓑ 1S1555
⇒ D615	8-719-200-02	Ⓑ 10E2
⇒ D641	8-719-320-11	Ⓑ HF-1A
⇒ D642–644	8-719-305-15	Ⓓ GH-3F
⇒ D645	8-719-200-02	Ⓑ 10E2
⇒ D646	8-719-305-15	Ⓓ GH-3F
⇒ D651, 652	8-719-200-02	Ⓑ 10E2
⇒ D653	8-719-931-13	Ⓑ EQB01-13
D801, 802	8-719-815-55	Ⓑ 1S1555
D803	8-719-926-20	ERB26
D805, 806	8-719-900-93	Ⓑ V09C
⇒ D810	8-719-305-15	Ⓓ GH-3F
⇒ D811	8-719-305-15	Ⓓ GH-3F
LED401	8-719-803-20	Ⓙ TLR320
LED402	8-719-812-41	Ⓑ TLR124
LED403	8-719-812-42	TLY124
LED404	8-719-812-43	TLG124
LED405–LED409	8-719-812-41	Ⓑ TLR124

Miscellaneous

Ref. No.	*Part No.*	*Description*
TH502	1-800-070-XX	Ⓐ Thermistor, S-5000
TH503	1-800-378-00	Ⓐ Thermistor, S-150
TH601	1-800-820-00	Thermistor, power
TH602,603	1-800-070-XX	Ⓐ Thermistor, S-4700
TH604	1-800-202-XX	Ⓐ Thermistor, S-10k
TH605		Thermistor, S-1000
THP601	1-800-362-21	Ⓕ Posistor
SG701–705	1-519-063-XX	Ⓑ Discharging Gap, 1.5k
SG801	1-519-063-XX	Ⓑ Discharging Gap, 1.5k

COILS

All coils are microinductors unless otherwise noted.

Ref. No.	*Part No.*	*Description*
L001, 002	1-407-762-00	Ⓑ 1mH
L003	1-408-267-00	3.3μH
L151	1-409-315-00	Ⓑ 100mH
L201	1-408-268-00	47μH
L205	1-407-738-00	Ⓐ 10μH
L206	1-408-267-00	3.3μH

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref. No.	Part No.	Description
L207	1-407-740-00	Ⓑ 15μH
L208	1-408-267-00	3.3μH
L301	1-408-245-00	22mH
L302	1-408-307-00	8.2μH
L303	1-408-270-00	6.8μH
L304	1-407-742-00	Ⓑ 22μH
L305	1-407-745-00	Ⓑ 39μH
L306	1-407-751-00	Ⓑ 120μH
L501	1-459-105-00	2.7mH
L502, 503	1-408-246-00	27μH
L506	1-408-242-00	10mH
L507	1-408-247-00	33mH
L508	1-435-055-21	Phase Adjust, PAC
L510	1-408-270-00	6.8μH
L602	1-407-365-00	Ⓐ 0.74μH
L603	1-408-300-00	Ⓑ 6.8μH
L641	1-459-215-00	Ⓑ 120μH
L642	1-407-169-XX	Ⓐ 68μH
L643	1-407-364-00	Ⓑ 3.3μH
L644	1-408-267-00	3.3μH
L645	1-407-364-00	Ⓑ 3.3μH
L701	1-407-755-00	270μH
L803	1-459-059-00	Ⓒ 12mH HCC
L805, 806	1-407-365-00	Ⓐ 0.74μH
L808, 809	1-408-225-00	Ⓑ 3.3μH
L810	1-459-125-00	Ⓒ HLC
L811	1-459-263-00	300μH
L812	1-408-241-00	Ⓑ 8.2mH
L814	1-407-365-00	Ⓐ 0.74μH
L815	1-459-215-00	Ⓑ 120μH
L901, 902	⚠1-454-166-12	Degaussing, DGC
L904	⚠1-451-175-11	Deflection Yoke, DY
L905	⚠1-452-099-11	Neck Ass'y
L906	1-407-364-00	Ⓑ Choke
L907	1-407-780-00	Ⓑ 3.3μH

Ref. No.	Part No.	Description
DL301	1-415-186-00	Delay Line, Y
DL302	1-415-185-00	Delay Line, 1H DL

TRANSFORMERS AND FILTERS

Ref. No.	Part No.	Description
CF001	1-527-476-00	Ceramic Radiator
CF201	1-527-263-00	Ceramic Filter
CF202	1-404-134-00	Ⓑ Ceramic Trap
CF301	1-409-332-00	Ceramic Trap
T201	1-404-207-00	Ⓑ VIFT-3
T202	1-404-203-00	Ⓑ REF
T203	1-404-097-00	Ⓑ SIFT
T204	1-403-810-00	Ⓑ AFT-1
T205	1-403-811-00	Ⓑ AFT-2
T206	1-404-135-00	Ⓑ SIFT
T207	1-404-206-00	Ⓑ VIFT-2
T208	1-403-990-00	Ⓑ VIFT-1
T301	1-425-995-00	Ⓑ TOT
T303	1-425-928-00	Ⓑ Delay Adjustment, DAT
T501	1-421-245-11	Vertical Pincushion Correction, PCT
T601	⚠1-421-352-00	Line Filter, LFT
T602	1-446-194-00	Regulator Drive, RDT
T603	1-413-040-00	Switching Regulator, SRT
T651	⚠1-446-360-00	Power, PT
T801	1-405-760-00	Ⓑ Horizontal Blocking, HBT
T802	⚠1-439-244-21	Flyback, FBT
T803	1-437-078-00	Horizontal Drive, HDT
T901	⚠1-427-402-00	Sound Output, SOT

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μμF, elect : electrolytic

Ref. No.	Part No.	Description		
C001, 002	1-123-352-00	1	50V	elect
C003, 004	1-161-313-00	150p		
C005	1-123-354-00	3.3	50V	elect
C006	1-123-316-00	10	16V	elect
C007	1-130-257-00	0.022	400V	polyethylene
C008	1-161-265-00	33p		
C009	1-123-021-00	0.47	50V	elect
C010	1-161-271-00	100p		
C011	1-161-268-00	56p		
C012, 013	1-123-354-00	3.3	50V	elect
C014	1-123-352-00	1	50V	elect
C015	1-130-248-00	0.047	250V	polyethylene
C016	1-161-330-00	0.01		
C017	1-161-316-00	270p		
C018	1-123-353-00	2.2	50V	elect
C019	1-130-244-00	0.22	100V	polyethylene
C020	1-102-129-00	Ⓐ 0.01		
C021	1-102-973-00	Ⓐ 100p		
C022	1-161-323-00	0.001		
C023	1-123-352-00	1	50V	elect
C024	1-130-242-00	0.10	100V	polyethylene
C025	1-161-323-00	0.001		
C027	1-108-365-00	Ⓐ 0.001	100V	mylar
C028, 029	1-161-319-00	470p		
C030	1-123-352-00	1	50V	elect
C032	1-121-951-00	Ⓐ 0.47	50V	elect
C034	1-123-318-00	Ⓐ 33	16V	elect
C035	1-121-951-00	Ⓐ 0.47	50V	elect
C037	1-123-317-00	22	16V	elect
C039	1-123-352-00	1	50V	elect
C040, 041	1-123-316-00	10	16V	elect
C042	1-130-255-00	0.01	400V	polyethylene
C043	1-123-354-00	3.3	50V	elect
C044	1-121-951-00	Ⓐ 0.47	50V	elect
C151	1-123-316-00	10	16V	elect
C152	1-161-269-00	Ⓐ 68p		
C153	1-161-051-00	Ⓐ 0.01		
C154	1-108-377-00	Ⓐ 0.01	100V	mylar
C155, 156	1-123-316-00	Ⓑ 10	16V	elect
C157	1-123-352-00	Ⓑ 1	50V	elect
C159	1-161-269-00	Ⓐ 68p		
C202	1-161-290-00	5.6p		
C203	1-161-268-00	56p		
C204	1-161-259-00	10p		
C205	1-161-267-00	47p		
C207	1-161-271-00	100p		
C208–211	1-161-328-00	0.0047		
C212	1-123-355-00	4.7	50V	elect
C214	1-161-323-00	0.001		
C215	1-161-280-00	12p		
C219	1-161-263-00	22p		
C220–224	1-161-328-00	0.0047		
C225	1-161-259-00	10p		
C226	1-161-328-00	0.0047		
C227	1-102-852-00	47p		
C228	1-102-525-00	Ⓐ 68p		
C229	1-161-249-00	1.5p		
C230	1-161-328-00	0.0047		
C231	1-101-006-00	Ⓐ 0.047		
C232	1-161-379-00	0.01		
C233	1-123-328-00	4.7	25V	elect
C234	1-103-725-00	0.001		polystyrol
C235	1-123-316-00	10	16V	elect
C236	1-101-006-00	Ⓐ 0.047		
C237	1-130-244-00	0.22	100V	polyethylene
C238	1-108-614-00	Ⓐ 0.001	100V	mylar
C239	1-123-352-00	1	50V	elect
C240	1-101-810-00	100p	500V	
C241	1-161-317-00	330p		
C242	1-123-253-00	Ⓑ 22	160V	elect
C243	1-121-999-00	Ⓑ 10	160V	elect
C244	1-123-321-00	Ⓑ 220	16V	elect
C245	1-123-319-00	Ⓑ 47	16V	elect
C246	1-123-318-00	Ⓐ 33	16V	elect
C247	1-130-248-00	0.047	250V	polyethylene
C248	1-130-241-00	0.068	100V	polyethylene
C250–253	1-123-316-00	10	16V	elect
C254	1-161-265-00	33p		
C258, 260	1-161-328-00	0.0047		
C262	1-130-248-00	0.047	250V	polyethylene

No.	Part No.	Description			
3	1-123-316-00		10	16V	elect
4	1-161-328-00		0.0047		
6	1-161-731-00		1000p	2000V	
7	1-161-259-00		10p		
8	1-108-634-00		0.047	100V	mylar
1	1-123-352-00		1	50V	elect
2	1-130-247-00		0.033	250V	polyethylene
3	1-108-616-00		0.015	100V	mylar
, 306	1-161-319-00		470p		
	1-101-804-00		10p	500V	
	1-123-316-00		10	16V	elect
	1-123-352-00		1	50V	elect
	1-161-265-00		330p		
	1-161-379-00		0.01		
	1-161-269-00		68p		
	1-161-271-00		100p		
	1-161-315-00		220p		
	1-161-379-00		0.01		
	1-123-351-00		0.47	50V	elect
	1-123-354-00		3.3	50V	elect
	1-123-328-00		4.7	25V	elect
	1-123-354-00		3.3	50V	elect
, 323	1-123-352-00		1	50V	elect
	1-123-286-00		0.33	50V	elect
	1-101-006-00	Ⓐ	0.047		
–328	1-161-379-00		0.01		
	1-161-269-00		68p		
	1-161-262-00		18p		
	1-102-525-00	Ⓐ	68p		
	1-123-351-00		0.47	50V	elect
, 334	1-130-248-00		0.047	250V	polyethylene
	1-161-271-00		100p		
	1-161-270-00		82p		
	1-123-316-00		10	16V	elect
, 339	1-161-265-00		33p		
–405	1-161-051-00	Ⓐ	0.01		
	1-123-352-00	Ⓑ	1	50V	elect
C502	1-123-320-00	Ⓑ	100	16V	elect
C503, 504	1-108-375-00	Ⓐ	0.0068	100V	mylar
C505	1-130-242-00		0.1	100V	polyethylene
C506	1-130-248-00		0.047	250V	polyethylene
C507	1-106-188-00		0.0047	100V	mylar
C508	1-123-317-00	Ⓑ	22	16V	elect
C509	1-123-363-00	Ⓒ	470	50V	elect
C510	1-123-356-00	Ⓐ	10	50V	elect
C511	1-102-050-00	Ⓑ	0.01	500V	
C512	1-123-356-00	Ⓑ	10	50V	elect
C513	1-108-639-00	Ⓑ	0.12	100V	mylar
C514	1-123-269-00	Ⓒ	4.7	160V	elect
C515	1-130-257-00		0.022	400V	polyethylene
C516	1-129-708-00	Ⓐ	0.033	630V	polypropylene
C517	1-130-257-00		0.022	400V	polyethylene
C518	1-130-244-00		0.22	100V	polyethylene
C519	1-130-242-00		0.10	100V	polyethylene
C524	1-129-701-00	Ⓐ	0.01	100V	film
C526	1-106-188-00	Ⓑ	0.0047	100V	mylar
C528	1-130-257-00		0.022	400V	polyethylene
C529	1-123-328-00	Ⓑ	4.7	25V	elect
C530	1-123-345-00	Ⓑ	100	35V	elect
C531	1-123-354-00	Ⓑ	3.3	50V	elect
C532	1-123-330-00	Ⓐ	22	25V	elect
C533	1-123-317-00	Ⓑ	22	16V	elect
C534	1-121-986-00	Ⓑ	2.2	50V	elect
C536	1-108-624-00	Ⓑ	0.0068	100V	mylar
C539	1-108-637-00	Ⓑ	0.082	100V	mylar
C540	1-108-631-00	Ⓑ	0.027	100V	mylar
C541	1-130-244-00		0.22	100V	polyethylene
C542	1-123-356-00	Ⓐ	10	50V	elect
C543	1-130-255-00		0.01	400V	polyethylene
C544	1-130-242-00		0.1	100V	polyethylene
C545	1-108-614-00	Ⓐ	0.001	100V	mylar
C546	1-102-030-00	Ⓐ	330p	500V	
C547	1-123-319-00	Ⓑ	47	16V	elect
C548	1-123-352-00	Ⓑ	1	50V	elect
C552	1-123-320-00	Ⓑ	100	16V	elect
C597	1-102-030-00	Ⓐ	330p	500V	
C601	1-108-745-00		0.22	300V	mylar
C602	1-108-747-00		0.1	300V	mylar
C603–605	1-102-085-00		0.0047	500V	
C606	1-125-167-00	Ⓖ	250	400V	elect
C607	1-101-845-00	Ⓐ	0.001	500V	
C608	1-123-354-00		3.3	50V	elect
C609	1-123-351-00		0.47	50V	elect
C610	1-130-017-00	Ⓐ	820	50V	polypropylene
C612	1-130-026-00		0.0047	50V	film
C613	1-130-257-00		0.022	400V	polyethylene
C614	1-102-030-00		330p	500V	
C616	1-101-810-00		100p	500V	
C617	1-130-256-00		0.015	400V	polyethylene
C619	1-102-327-00		330p	1500V	
C621	1-121-999-00	Ⓑ	10	160V	elect
C622	1-123-024-00		33	160V	elect
C623	1-108-365-00	Ⓐ	0.001	100V	mylar
C625	1-123-297-00	Ⓑ	330p	6.3V	elect
C626	1-123-352-00		1	50V	elect
C627	1-123-252-00	Ⓐ	1	160V	elect
C641	1-123-254-00		10	250V	elect
C642	1-123-362-00	Ⓑ	330	50V	elect
C643	1-123-334-00	Ⓑ	220	25V	elect
C644	1-123-308-00	Ⓐ	220	10V	elect
C645	1-123-356-00	Ⓐ	10	50V	elect
C646	1-123-334-00	Ⓑ	220	25V	elect
C647	1-161-731-00	Ⓑ	1000p	200V	
C649	1-102-030-00	Ⓐ	330p	500V	
C651	1-123-360-00	Ⓑ	100	50V	elect
C653	1-123-316-00	Ⓑ	10	16V	elect
C701, 702	1-161-313-00	Ⓐ	150p		
C703	1-161-315-00	Ⓐ	220p		
C704	1-129-718-00	Ⓐ	0.022	630V	plastic
C705	1-130-250-00		0.1	250V	polyethylene
C707	1-102-155-00	Ⓑ	330p	2000V	
C801	1-123-329-00	Ⓑ	10	25V	elect
C802	1-108-369-00	Ⓐ	0.0022	100V	mylar
C803	1-130-228-00	Ⓒ	0.011	1200V	film
C804	1-102-030-00	Ⓐ	330p	500V	
C805, 806	1-130-247-00		0.033	250V	polyethylene
C807	1-130-241-00		0.068	100V	polyethylene
C809	1-130-272-00		0.033	100V	polyethylene
C810	1-130-242-00		0.1	100V	polyethylene
C811	1-123-351-00	Ⓑ	0.47	50V	elect
C812	1-130-255-00		0.01	400V	polyethylene
C813	1-102-228-00	Ⓐ	470p	500V	
C814	1-102-212-00	Ⓐ	820p	500V	
C815	1-102-223-00	Ⓑ	4700p	1600V	
C817, 818	1-123-320-00	Ⓑ	100	16V	elect
C820	1-123-310-00	Ⓩ	470	10V	elect
C823	1-102-249-00	Ⓑ	680p	2000V	
C824	1-130-157-00	Ⓓ	1	200V	polyethylene
C826	1-129-949-00	Ⓕ	1	400V	polyethylene
C827	1-130-252-00		0.22	250V	polyethylene
C828	1-123-024-00	Ⓑ	33	160V	elect
C829	1-123-328-00	Ⓑ	4.7	25V	elect
C830	1-130-255-00		0.01	400V	polyethylene
C831	1-130-250-00		0.1	250V	polyethylene
C832	1-130-242-00		0.1	100V	polyethylene
C833	1-123-329-00		10	25V	elect
C835	1-102-155-00	Ⓑ	330p	2000V	
C836	1-102-249-00	Ⓑ	680p	2000V	
C901	1-130-334-00	Ⓑ	0.001	1200V	
C903	1-121-257-00	Ⓑ	4.7	16V	elect

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Refer to the list on the last page for their part numbers.
All variable and adjustable resistors have characteristic curve B,
unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ

R048	1-202-730-00	Ⓐ	8.2M	½W	composition
R052	1-206-698-00	Ⓑ	27k	2W	metal oxide (nonflammable)
R233, 234	1-246-875-00	Ⓐ	33	½W	carbon (nonflammable)

Ref. No.	Part No.	Description			
R518	1-212-360-00	Ⓐ	1	1W	metal oxide (nonflammable)
R519	1-213-140-00	Ⓐ	560	1W	metal oxide (nonflammable)
R520	1-213-142-00	Ⓐ	820	1W	metal oxide (nonflammable)
R522	1-244-875-00	Ⓐ	1.2k	½W	carbon
R523	1-211-929-00	Ⓐ	82	1/8W	carbon (nonflammable)
R524	1-211-930-00	Ⓐ	33	1/8W	carbon (nonflammable)
R526, 527	1-212-361-00	Ⓐ	1.2	1W	metal oxide (nonflammable)
R531	1-202-625-00	Ⓐ	150k	½W	composition
R543	1-206-642-00	Ⓐ	120	2W	metal oxide (nonflammable)
R551	1-244-875-00	Ⓐ	1.2k	½W	carbon
R552	1-213-135-00	Ⓐ	220	1W	metal oxide (nonflammable)
R553	1-213-124-00	Ⓐ	27	1W	metal oxide (nonflammable)
R575	1-213-128-00	Ⓐ	56	1W	metal oxide (nonflammable)
R601	1-217-318-00	Ⓑ	470	5W	wirewound (nonflammable)
R603	1-214-475-00	Ⓑ	68k	2W	metal oxide (nonflammable)
R604	1-213-160-00	Ⓑ	27k	1W	metal oxide (nonflammable)
R605	1-202-643-00		820k	½W	composition
R606	1-213-161-00		33k	1W	metal oxide (nonflammable)
R623	1-206-758-00		24k	3W	metal oxide (nonflammable)
R624	1-206-758-00		24k	3W	metal oxide (nonflammable)
R625	1-206-696-00	Ⓐ	22k	2W	metal oxide (nonflammable)
R626	1-247-033-00		100	1/8W	carbon (nonflammable)
R627	1-212-358-00	Ⓑ	0.68	1W	metal oxide (nonflammable)
R628	1-212-353-00		0.27	1W	metal oxide (nonflammable)
R640	1-247-436-00		10k	1/8W	carbon
R641	1-206-749-00		10k	3W	metal oxide (nonflammable)
R642	1-246-979-00		1.2	1/8W	carbon (nonflammable)
R651, 652	1-246-979-00		1.2	1/8W	carbon (nonflammable)
R710–712	1-206-692-00	Ⓐ	15k	2W	metal oxide (nonflammable)
R713–715	1-244-885-00	Ⓐ	3.3k	½W	composition
R716	1-244-939-00	Ⓐ	560k	½W	composition
R717	1-244-945-00	Ⓐ	1M	½W	composition
R718	1-244-843-00	Ⓐ	56	½W	composition
R719	1-244-937-00	Ⓐ	470k	½W	composition
R720	1-244-933-00	Ⓐ	330k	½W	composition
R721	1-244-919-00	Ⓐ	82k	½W	composition
R724	1-244-945-00	Ⓐ	1M	½W	composition
R803	1-202-597-00	Ⓐ	10k	½W	composition
R809	1-213-162-00	Ⓐ	39k	1W	metal oxide (nonflammable)
R816	1-206-733-00	Ⓑ	2.2k	3W	metal oxide (nonflammable)
R818	1-202-635-00	Ⓐ	390k	½W	composition
R819	1-247-040-00	Ⓐ	1.0k	1/8W	carbon (nonflammable)
R820	1-212-376-00	Ⓐ	22	W	metal oxide (nonflammable)
R821	1-206-439-00	Ⓐ	1	2W	metal oxide (nonflammable)
R822	1-202-589-00	Ⓐ	4.7k	½W	composition
R824	1-212-360-00	Ⓐ	1	1W	metal oxide (nonflammable)
R825	1-206-664-00	Ⓑ	1k	2W	metal oxide (nonflammable)
R827	1-213-133-00	Ⓐ	150	1W	metal oxide (nonflammable)
R828	1-206-439-00	Ⓐ	1	2W	metal oxide (nonflammable)
R832	1-202-597-00	Ⓐ	10k	½W	composition
R833	1-244-915-00	Ⓐ	56k	½W	composition
R835	1-206-664-00	Ⓑ	1k	2W	metal oxide (nonflammable)
R901	1-244-849-00	Ⓐ	100	½W	
✱ R904	1-207-457-00		0.33	½W	wirewound
	1-207-462-00		0.82	½W	wirewound
	1-207-465-00		1.5	½W	wirewound
	1-207-469-00		3.3	½W	wirewound
R905	1-213-125-00		33	1W	metal oxide (nonflammable)
RV001	1-224-645-XX	Ⓑ	10k, adjustable; OSC		
RV201	1-224-644-XX	Ⓑ	4.7k, adjustable; RF AGC		
RV202	1-224-645-XX	Ⓑ	10k, adjustable; DET OUT		
RV301	1-224-645-XX	Ⓑ	10k, adjustable; SUB BRT		
RV302	1-224-641-XX	Ⓑ	470, adjustable; SMB		
RV303	1-224-644-XX	Ⓑ	4.7k, adjustable; APC		
RV304	1-224-642-XX	Ⓑ	1k, adjustable; PHASE		
RV305	1-222-344-00	Ⓑ	5k, adjustable; R. BKG		
RV306	1-222-344-00	Ⓑ	5k, adjustable; G. BKG		
RV307	1-222-344-00	Ⓑ	5k, adjustable; B. BKG		
RV308	1-224-644-XX	Ⓑ	4.7k, adjustable; SUB COLOR		
RV451	1-224-554-00	Ⓑ	20k, variable; BRIGHTNESS		
RV452	1-224-554-00	Ⓑ	20k, variable; TONE		
RV453	1-224-554-00	Ⓑ	20k, variable; SUB VOL1		
RV501	1-224-972-00	Ⓑ	20k, variable; V. HOLD		
RV502	1-222-807-XX	Ⓑ	20k, adjustable; V. SIZE		
RV503	1-221-970-XX	Ⓑ	500, adjustable; V. CENT		
RV504	1-221-956-XX	Ⓑ	50k, adjustable; PIN AMP		
RV505	1-224-642-XX	Ⓑ	1k, adjustable; H. SIZE		
RV506	1-222-807-XX	Ⓑ	20k, adjustable; Y. BOW		
RV509	1-221-970-XX	Ⓑ	500, adjustable; H. AMP		
RV510	1-222-344-00	Ⓑ	5k, adjustable; H. TILT		
RV511	1-224-640-XX	Ⓑ	330, adjustable; PIN PHASE		

✱ : selected to yield optimum performance.

Ref. No.	Part No.	Description	
RV601	1-224-643-XX	Ⓑ	2.2k, adjustable; 135V ADJ
RV701	1-226-105-00	Ⓑ	220, adjustable; B. DRIVE
RV702	1-226-105-00	Ⓑ	220, adjustable; G. DRIVE
RV703	1-226-157-00	Ⓒ	1M, adjustable; G2 ADJ
RV704	1-226-114-00	Ⓒ	2.2M, adjustable; FOCUS
RV801	1-223-064-00		150, adjustable; H. CENT

SWITCHES

Ref. No.	Part No.	Description	
S401, 402	1-552-174-00	Ⓑ	Push, PRGR
S403–408	1-552-174-00	Ⓑ	Push
S409	1-552-174-00	Ⓑ	Push, SEARCH
S410	1-552-174-00	Ⓑ	Push, FINE TUNE
S411	1-552-174-00	Ⓑ	Push, RESET
S412	1-552-174-00	Ⓑ	Push, SEARCH ON/OFF
S413	1-552-174-00	Ⓑ	Push, AUTOMATIC PROGRAMMING
S451	1-516-473-XX	Ⓒ	AFT
S901	⚠1-552-116-00	Ⓓ	Push, POWER

MISCELLANEOUS

Ref. No.	Part No.	Description	
F601	⚠1-532-465-11	Ⓑ	Fuse, 3.15AT
J901A, B	1-507-539-11	Ⓑ	Jack, EARPHONE
NL701	1-519-108-XX	Ⓑ	Lamp, Neon Ass'y
SF201	1-404-208-00	Ⓖ	Filter, SAWF; 39MHz
SP901	1-502-650-00	Ⓖ	Speaker, cone; 8Ω
V901	⚠8-737-602-05	Ⓩ	Picture Tube 570EB22
X301	1-527-530-00		Radiator, crystal; 4.43MHz
	1-226-271-00		Resistor Ass'y, high-voltage
	1-452-032-00	Ⓐ	Magnet, disc
	1-452-133-00	Ⓒ	Magnet
	1-526-086-XX	Ⓑ	Socket, picture tube
	⚠1-536-473-00	Ⓚ	Terminal, antenna
	⚠1-551-270-00	Ⓚ	Cord, power

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
A-1470-313-A	Commander Ass'y, RM-605
4-495-824-11	Manual, instruction

KV-2204E

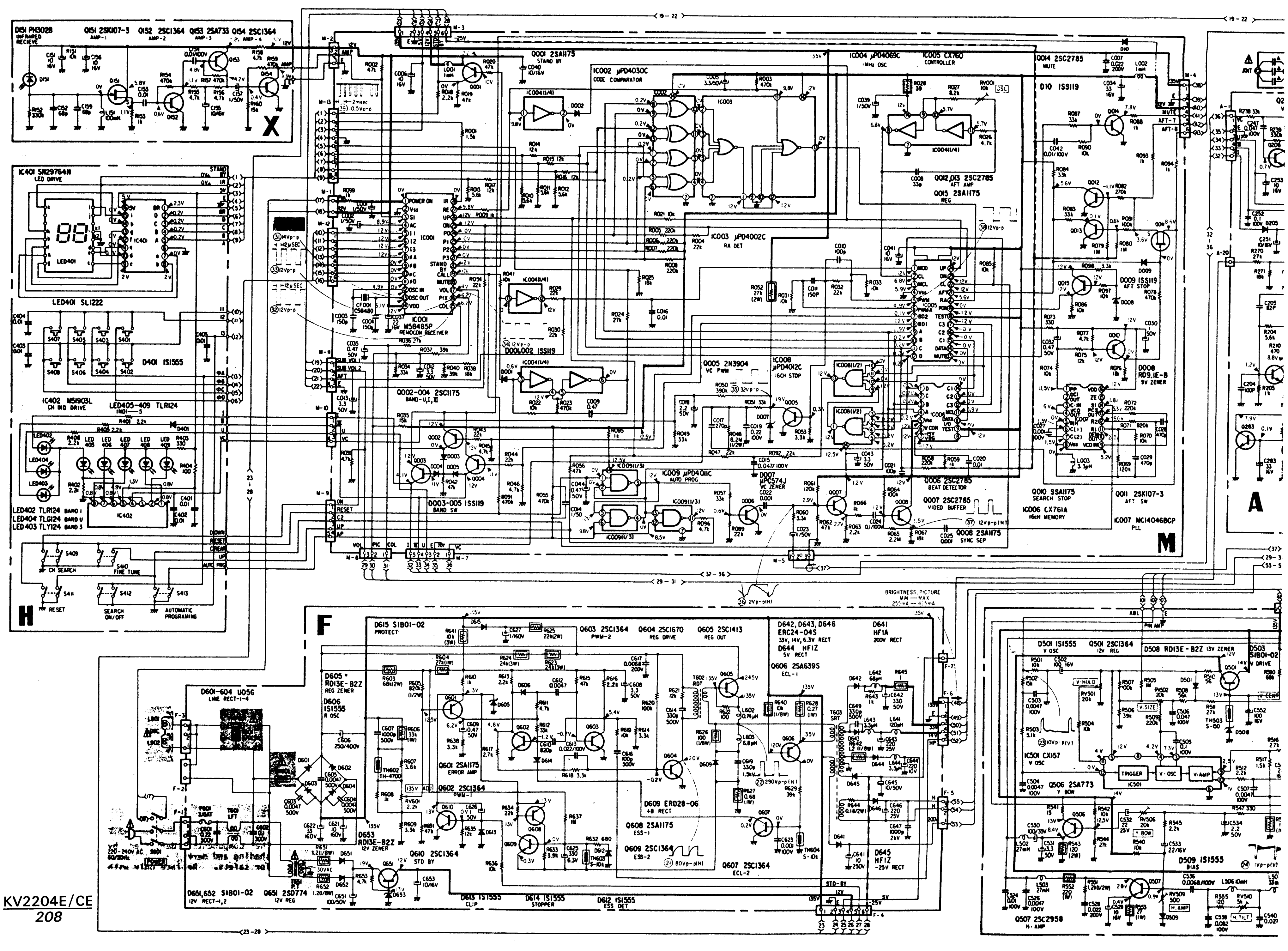
No. 1
July, 1981

Chassis No. SCC-216E-A
(Serial No. 350,001 and later)

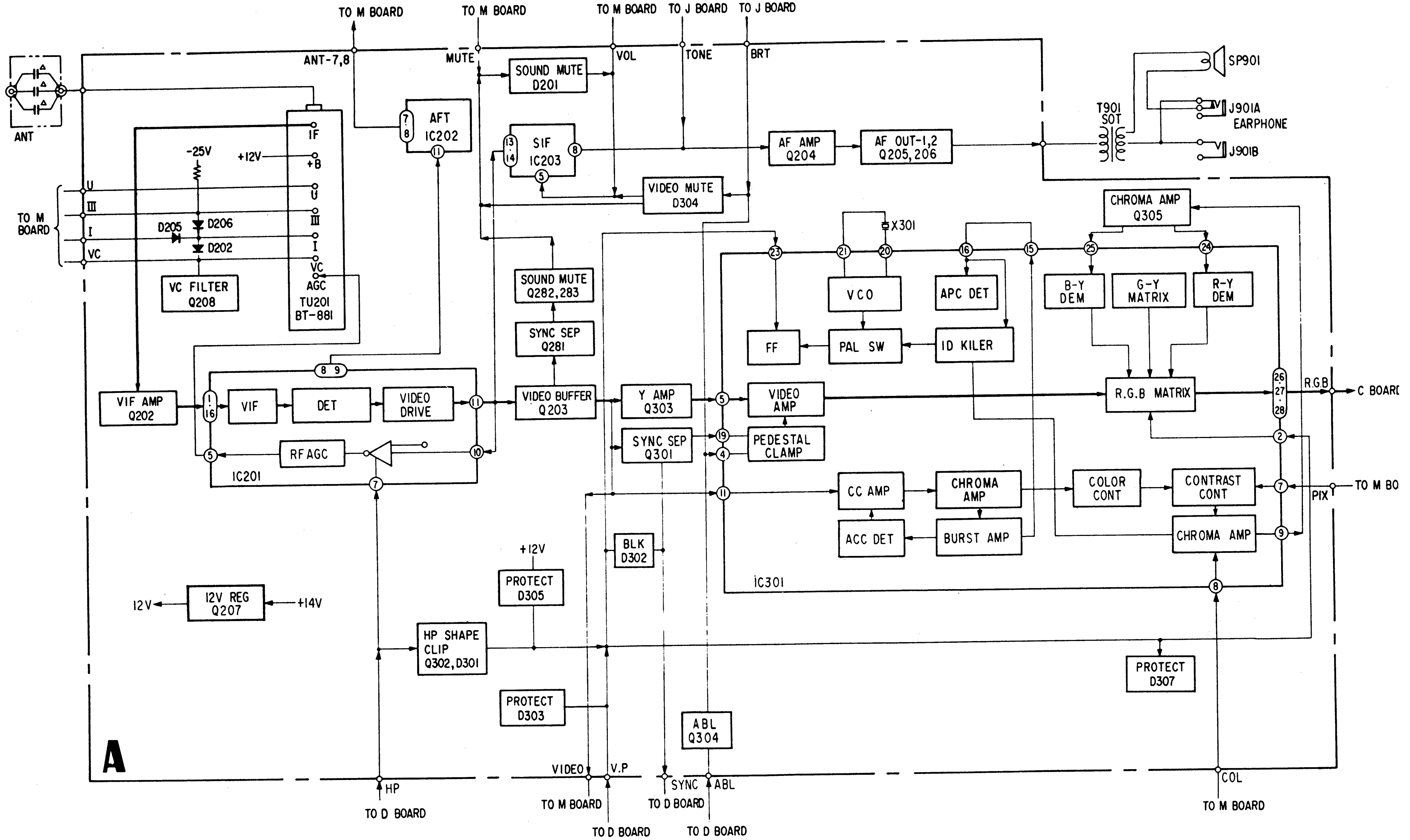
SUPPLEMENT

File this supplement with the service manual.

Subject:
- **A board modification.**
- **Antenna terminal plate change.**


X
D151 PH302B INFRARED RECIEVE
Q151 2SK107-3 AMP-1
Q152 2SC1364 AMP-2
Q153 2SA733 AMP-3
Q154 2SC1364 AMP-4
H
IC401 SN29764N LED DRIVE
LED401 SL1222
D401 1S1555
IC402 M51903L CH IND DRIVE
LED405-409 TLR124
LED402 TLR124 BAND I
LED404 TLG124 BAND U
LED403 TLY124 BAND III
S409 CH SEARCH
S410 FINE TUNE
S411 RESET
S412 SEARCH ON/OFF
S413 AUTOMATIC PROGRAMING
M
Q001 2SA1175 STAND BY
IC001 M58485P REMOCON RECEIVER
IC002 μPD4030C CODE COMPARATOR
IC003 μPD4002C RA DET
IC004 μPD4069C 1MHz OSC
IC005 CX760 CONTROLLER
Q014 2SC2785 MUTE
D10 1SS119
Q012,013 2SC2785 AFT AMP
Q015 2SA1175 REG
Q002-004 2SC1175 BAND-U,I,III
D003-005 1SS119 BAND SW
D001,002 1SS119
Q005 2N3904 VC PWM
IC008 μPD4012C 16CH STOP
IC009 μPD4011C AUTO PROG
D007 μPC574J VC ZENER
Q006 2SC2785 BEAT DETECTOR
Q007 2SC2785 VIDEO BUFFER
Q008 2SA1175 SYNC SEP
Q010 SSA1175 SEARCH STOP
Q011 2SK107-3 AFT SW
IC006 CX761A 16CH MEMORY
IC007 MC14046BCP PLL
D009 1SS119 AFT STOP
D008 RD9.1E-B 9V ZENER
A
F
D615 S1B01-02 PROTECT
Q603 2SC1364 PWM-2
Q604 2SC1670 REG DRIVE
Q605 2SC1413 REG OUT
D642,D643,D646 ERC24-04S 33V,14V,6.3V RECT
D644 HF1Z 5V RECT
D641 HF1A 200V RECT
Q606 2SA639S ECL-1
D605 RD13E-B2Z REG ZENER
D606 1S1555 R OSC
D601-604 U05G LINE RECT-1-4
Q601 2SA1175 ERROR AMP
Q602 2SC1364 PWM-1
Q610 2SC1364 STD BY
D653 RD13E-B2Z 12V ZENER
D609 ERD28-06 +B RECT
Q608 2SA1175 ESS-1
Q609 2SC1364 ESS-2
Q607 2SC1364 ECL-2
D645 HF1Z -25V RECT
D651,652 S1B01-02 12V RECT-1,2
Q651 2SD774 12V REG
D613 1S1555 CLIP
D614 1S1555 STOPPER
D612 1S1555 ESS DET
220-240V AC 60/50Hz
BRIGHTNESS, PICTURE MIN — MAX 255mA — 4.5mA
D501 1S1555 V OSC
Q501 2SC1364 12V REG
D508 RD13E-B2Z 13V ZENER
D503 S1B01-02
IC501 CX157 V OSC
Q506 2SA773 Y BOW
D509 1S1555 BIAS
Q507 2SC2958 H-AMP

KV2204E/CE
208


A
ANT
TO M BOARD
TO M BOARD
TO M BOARD
TO J BOARD
TO J BOARD
ANT-7,8
MUTE
VOL
TONE
BRT
SOUND MUTE D201
AFT IC202
SIF IC203
AF AMP Q204
AF OUT-1,2 Q205,206
T901 SOT
SP901
J901A EARPHONE
J901B
VIDEO MUTE D304
IF
+B
U
III
I
VC
AGC
TU201 BT-881
-25V
+12V
D205
D206
D202
TO M BOARD
VC FILTER Q208
SOUND MUTE Q282,283
SYNC SEP Q281
CHROMA AMP Q305
X301
VCO
APC DET
B-Y DEM
G-Y MATRIX
R-Y DEM
FF
PAL SW
ID KILER
VIF AMP Q202
VIF
DET
VIDEO DRIVE
VIDEO BUFFER Q203
Y AMP Q303
VIDEO AMP
R.G.B MATRIX
R.G.B
C BOARI
RF AGC
IC201
SYNC SEP Q301
PEDESTAL CLAMP
CC AMP
CHROMA AMP
COLOR CONT
CONTRAST CONT
TO M BO
PIX
ACC DET
BURST AMP
CHROMA AMP
BLK D302
IC301
+12V
PROTECT D305
12V REG Q207
12V
+14V
HP SHAPE CLIP Q302,D301
PROTECT D307
PROTECT D303
ABL Q304
HP
TO D BOARD
VIDEO
V.P
SYNC
ABL
COL
TO M BOARD
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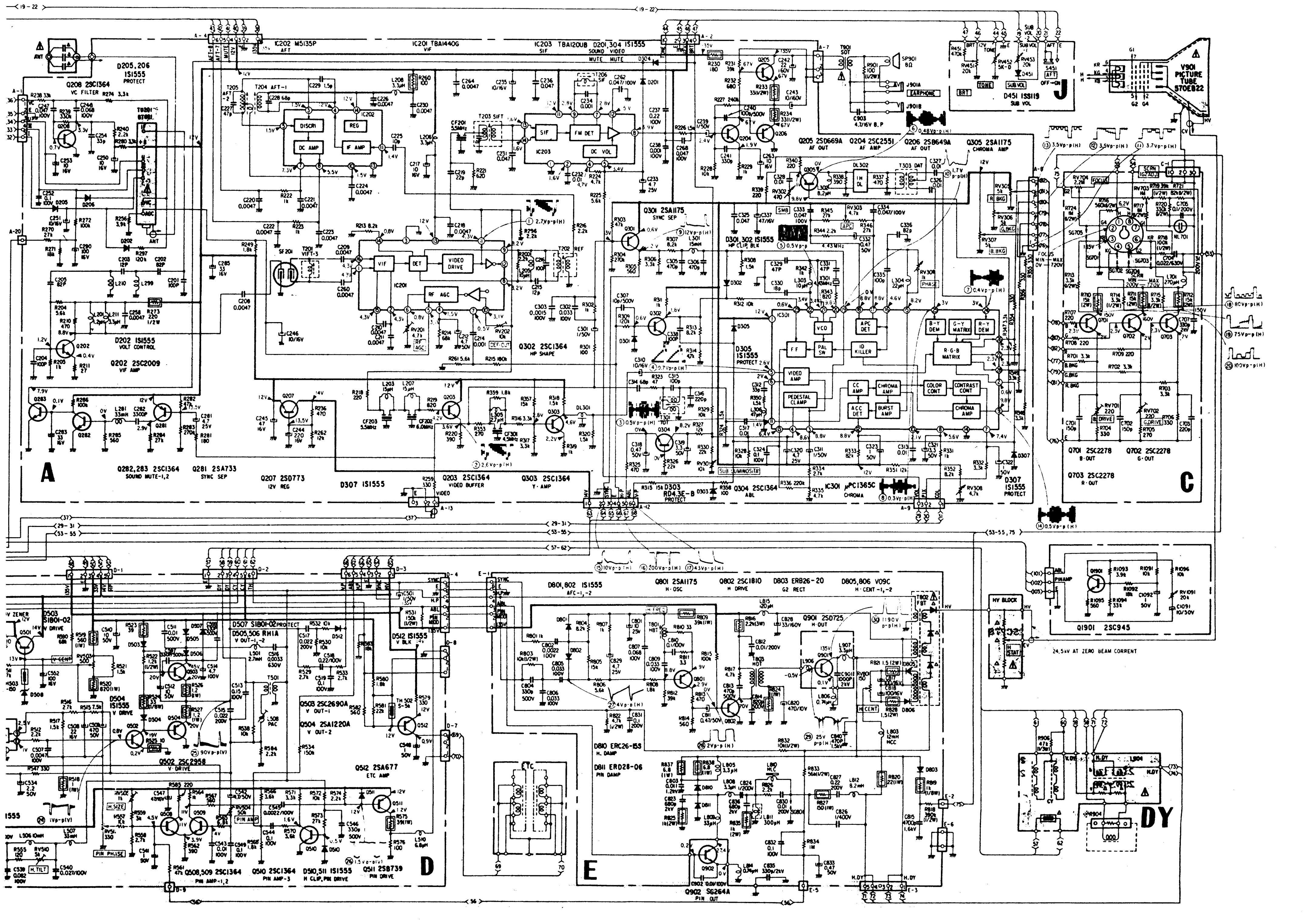
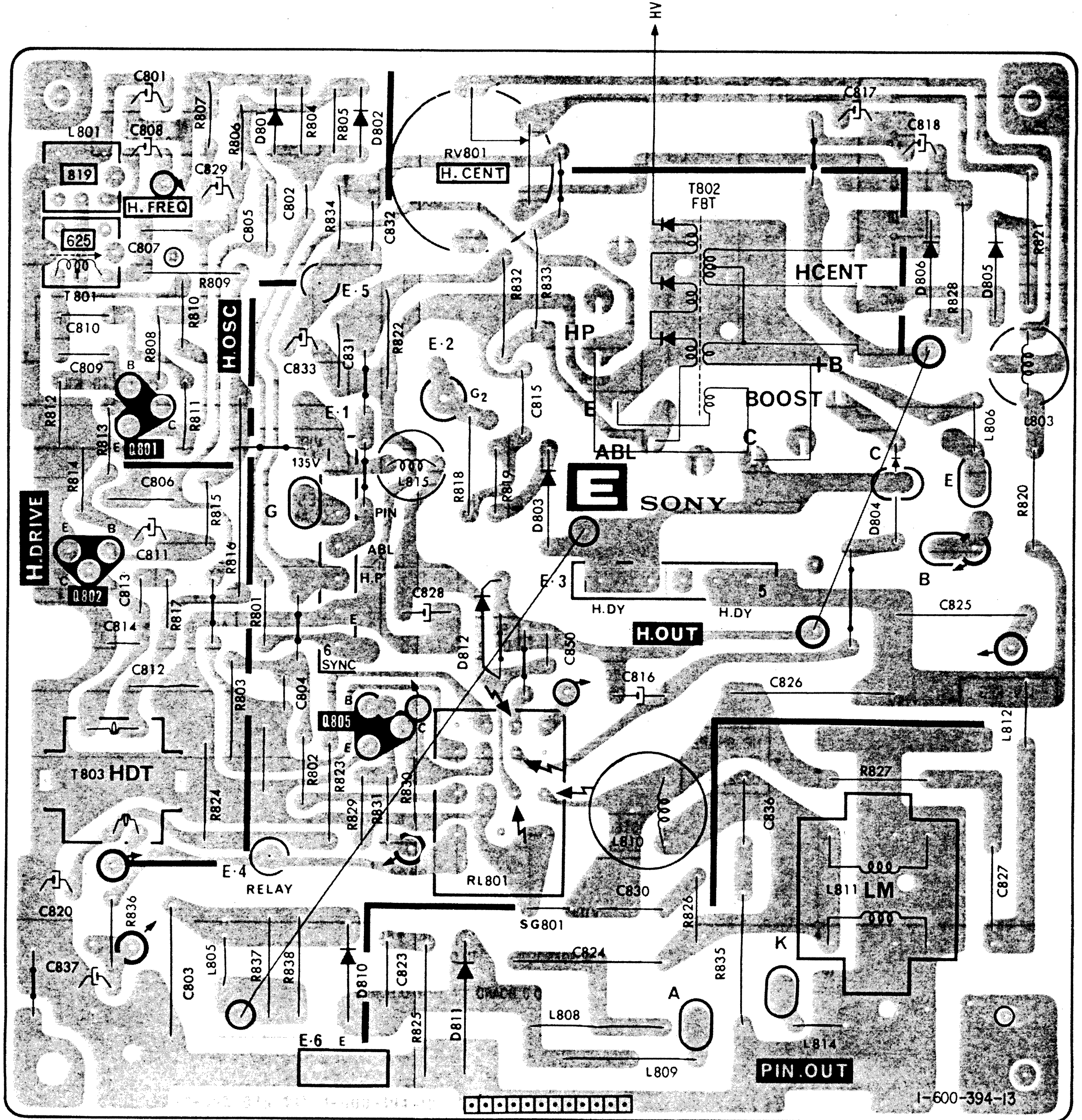
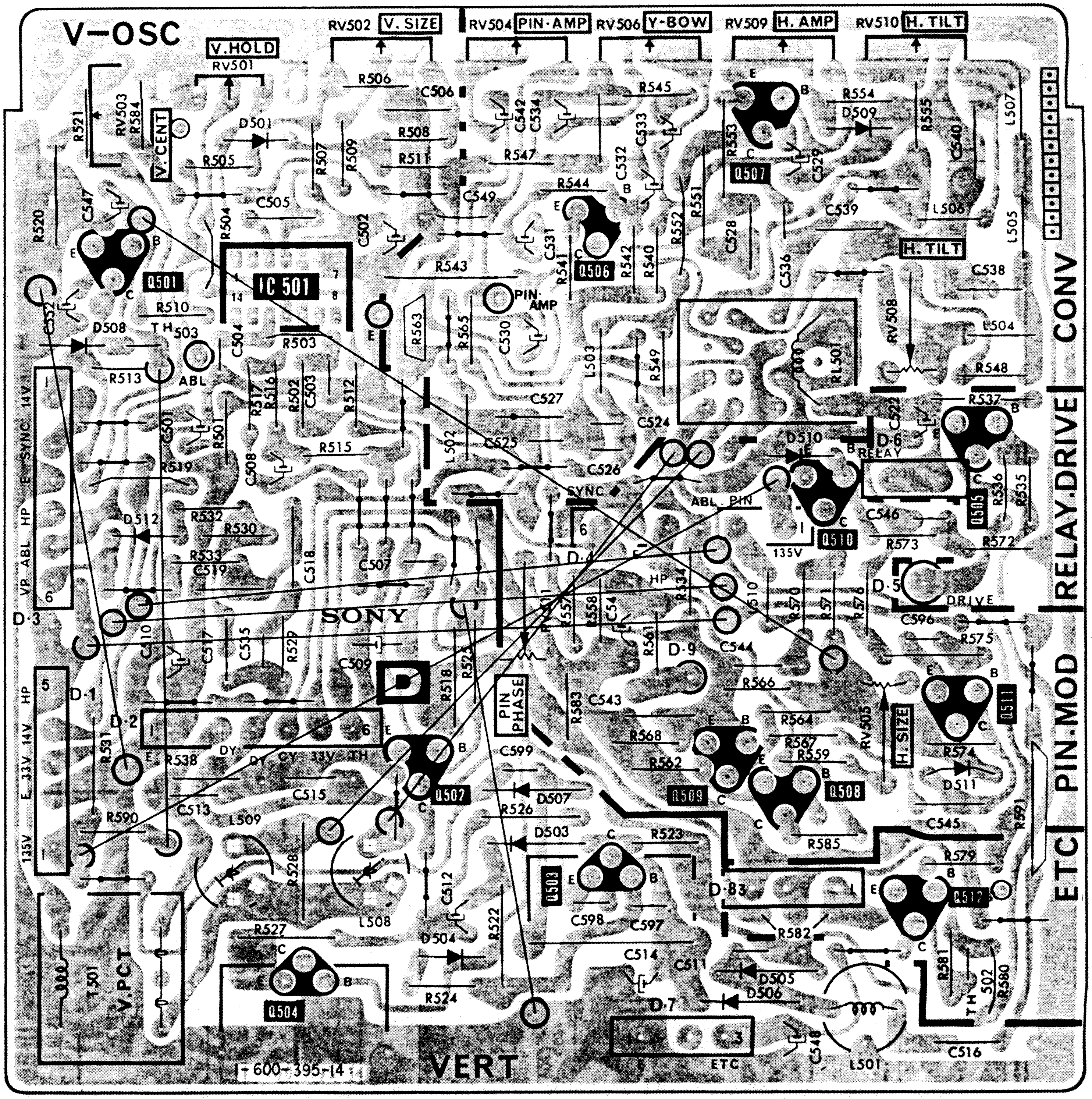

IC202 M5135P AFT
IC201 TBA1440G VIF
IC203 TBA120UB SIF
D201,304 1S1555 SOUND VIDEO
MUTE
D205,206 1S1555 PROTECT
Q208 2SC1364 VC FILTER
TU201
DISCRI
REG
DC AMP
IF AMP
SIF
FM DET
DC VOL
VIF
DET
VIDEO DRIVE
RF AGC
D202 1S1555 VOLT CONTROL
Q202 2SC2009 VIF AMP
Q282,283 2SC1364 SOUND MUTE-1,2
Q281 2SA733 SYNC SEP
Q207 2SD773 12V REG
D307 1S1555
Q203 2SC1364 VIDEO BUFFER
Q303 2SC1364 Y-AMP
Q301 2SA1175 SYNC SEP
Q302 2SC1364 HP SHAPE
D301,302 1S1555 HP CLIP, BLK
D305 1S1555 PROTECT
Q304 2SC1364 ABL
D303 RD4.3E-B PROTECT
IC301 µPC1365C CHROMA
D307 1S1555 PROTECT
Q205 2SC669A AF OUT
Q204 2SC2551 AF AMP
Q206 2SB649A AF OUT
Q305 2SA1175 CHROMA AMP
SP901 8Ω
J901A EARPHONE
VCO
APC DET
FF
PAL SW
ID KILLER
B-Y DEM
G-Y MATRIX
R-Y DEM
R-G-B MATRIX
VIDEO AMP
PEDESTAL CLAMP
CC AMP
CHROMA AMP
ACC DET
BURST AMP
COLOR CONT
CONTRAST CONT
CHROMA AMP
PHASE
SUB LUMINOSITA
D451 1SS119 SUB VOL
BRT
TONE
SUB VOL
AFT OFF→ON
V901 PICTURE TUBE 370EB22
FOCUS
SCRN
Q701 2SC2278 B-OUT
Q702 2SC2278 G-OUT
Q703 2SC2278 R-OUT
B DRIVE
G DRIVE
Q1901 2SC945
PINAMP
HV BLOCK
24.5kV AT ZERO BEAM CURRENT
D503 S1B01-02 DRIVE
D507 S1B01-02 PROTECT
D505,506 RH1A V OUT-1,-2
D512 1S1555 V BLK
D504 1S1555 V DRIVE
Q503 2SC2690A V OUT-1
Q504 2SA1220A V OUT-2
Q502 2SC2958 V DRIVE
Q512 2SA677 ETC AMP
V CENT
H SIZE
PIN AMP
PIN PHASE
H TILT
Q508,509 2SC1364 PIN AMP-1,2
Q510 2SC1364 PIN AMP-3
D510,511 1S1555 H CLIP, PIN DRIVE
Q511 2SB739 PIN DRIVE
ETC
D801,802 1S1555 AFC-1,-2
Q801 2SA1175 H-OSC
Q802 2SC1810 H DRIVE
D803 ERB26-20 G2 RECT
D805,806 V09C H-CENT-1,-2
Q901 2SD725 H-OUT
H FREQ
H CENT
T802 FBT
D810 ERC26-15S H. DAMP
D811 ERD28-06 PIN DAMP
Q902 SG264A PIN OUT
H.DY
V.DY
CV
A
C
D
E
J
DY

— E Board —

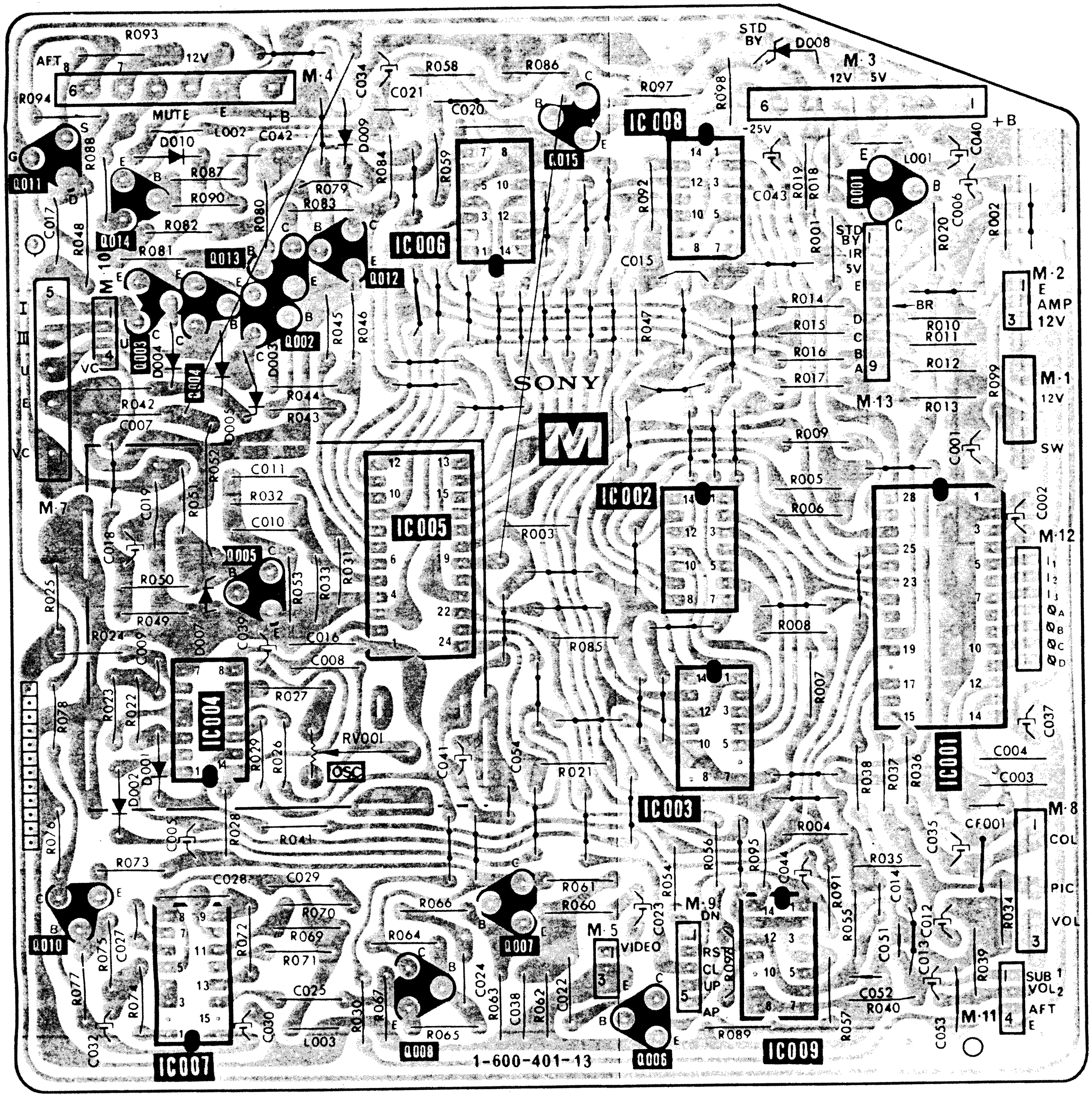
Q, IC	D	ADJ
		RV801
801		
	803	
802		
	812	
805		
	810	
	811	
Q, IC	D	ADJ


HV
C801
C808
L801
819
C829
H. FREQ
625
C807
T801
R807
R806
D801
R804
R805
D802
RV801
H. CENT
C817
C818
T802
FBT
C802
C805
R834
C832
R809
R810
E·5
C810
R808
H.OSC
C833
C831
R822
R832
R833
HP
HCENT
D806
R828
D805
R821
C809
B
R812
R813
R811
C
E
Q801
E·1
E·2
G2
C815
E
+B
BOOST
L806
C803
C806
135V
L815
R818
R819
D803
ABL
C
C
E
R820
H.DRIVE
R815
G
PIN
E
SONY
D804
E
B
Q802
C811
R816
ABL
H.P
E·3
5
B
C813
R817
C814
R801
C828
H.DY
H.DY
C825
E
6
SYNC
D812
C850
H.OUT
C812
R803
C804
C816
C826
L812
Q805
B
C
E
T803 HDT
R824
R802
R823
R829
R831
R830
R827
C836
L810
E·4
RELAY
RL801
C820
R836
C830
L811
LM
C827
SG801
R826
C837
L805
R837
R838
D810
C823
C824
R835
K
C803
D811
R825
L808
A
E·6
E
L809
L814
PIN.OUT
1-600-394-13

Q, IC	D	ADJ
		RV501
		RV502
		RV503
		RV504
		RV506
507		RV509
	509	RV510
	501	
506		
501		
	508	RV508
505		
	510	
510		
	512	
		RV511
511		
502		RV505
509		
	511	
	507	
508		
	503	
503		
512		
	504	
504		
	505	
	506	
Q, IC	D	ADJ

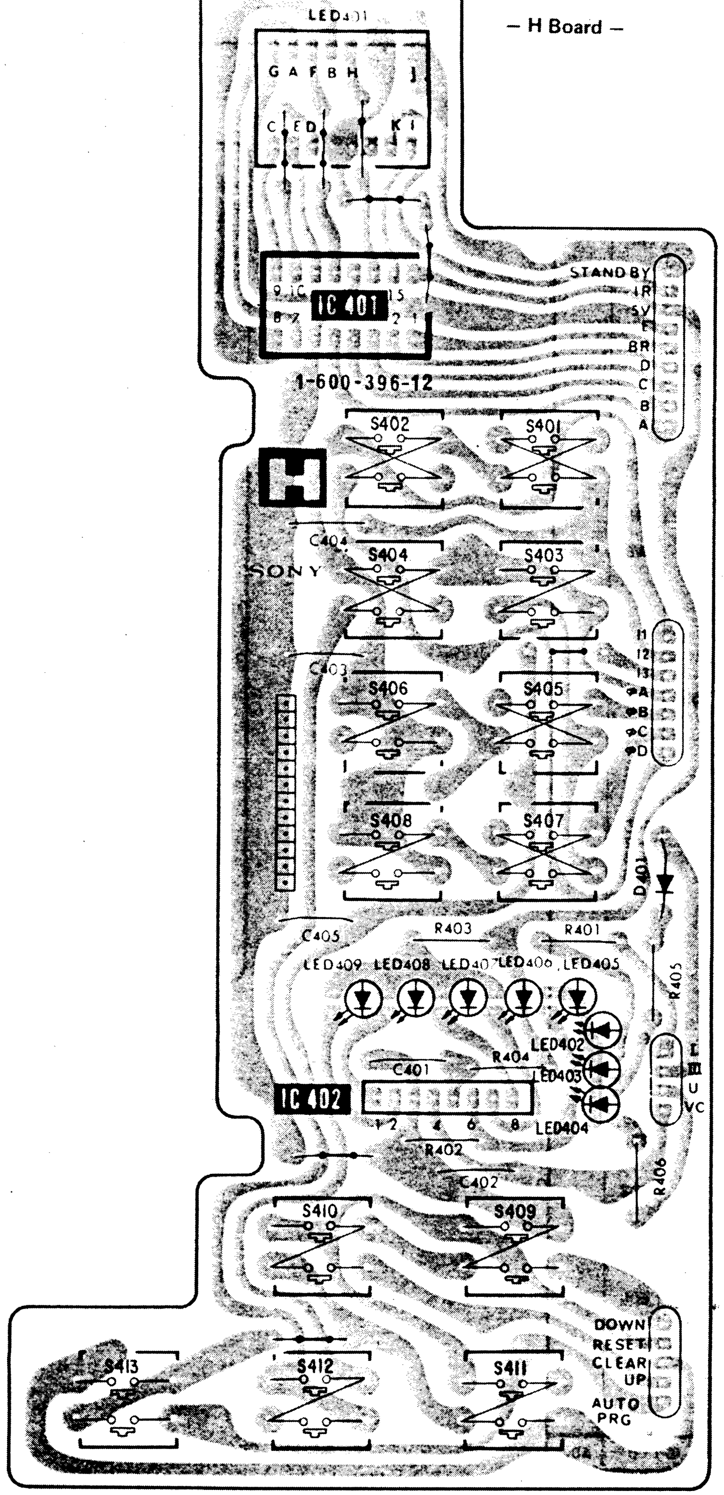


V-OSC
V.HOLD
RV501
RV502 V. SIZE
RV504 PIN·AMP
RV506 Y-BOW
RV509 H. AMP
RV510 H. TILT
V. CENT
RV503
IC 501
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508
Q509
Q510
Q511
Q512
PIN· AMP
ABL
ABL. PIN
SYNC
H. TILT
RV508
L501
L502
L503
L504
L505
L506
L507
L508
L509
T501
V.P.C.T
CONV
RELAY.DRIVE
RELAY
DRIVE
PIN.MOD
ETC
PIN PHASE
H. SIZE
RV505
SONY
DY CY 33V TH
14V SYNC E HP ABL VP
135V 33V E 14V HP
135V
D·1
D·2
D·3
D·4
D·5
D·6
D·7
D·83
D·9
1-600-395-14
VERT

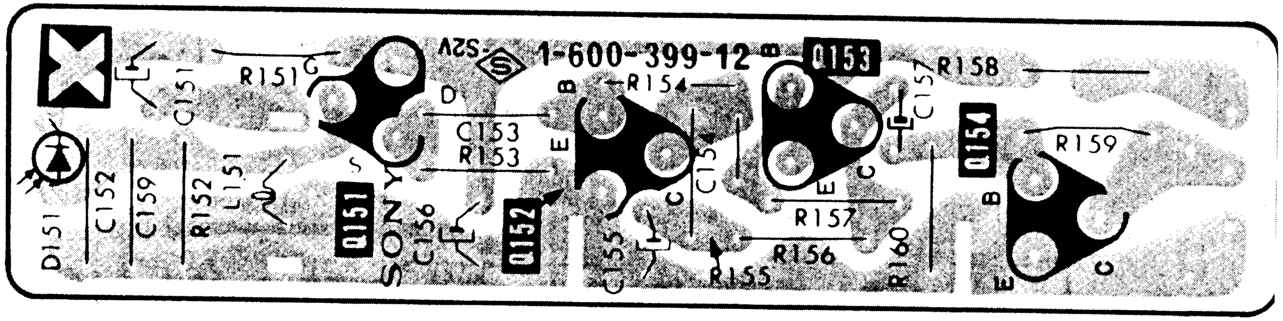

1-600-401-13
SONY
M
IC001
IC002
IC003
IC004
IC005
IC006
IC007
IC008
IC009
Q001
Q002
Q003
Q004
Q005
Q006
Q007
Q008
Q010
Q011
Q012
Q013
Q014
Q015
M·1
M·2
M·3
M·4
M·5
M·7
M·8
M·9
M·10
M·11
M·12
M·13
RV001
OSC
CF001
AFT
12V
MUTE
+B
STD BY
D008
-25V
E AMP 12V
12V
SW
COL
PIC
VOL
SUB VOL
AFT
VIDEO
DN
RS
CL
UP
AP
BR

Q, IC	D	ADJ
	008	
015		
	009	
011	010	
014		
IC006		
001		
IC008		
012		
013		
003		
004		
002		
	004	
	005	
	003	
IC005		
IC002		
IC001		
005		
	007	
IC004		
IC003		RV001
	001	
	002	
010 007		
IC007		
IC009		
008		
006		
Q, IC	D	ADJ

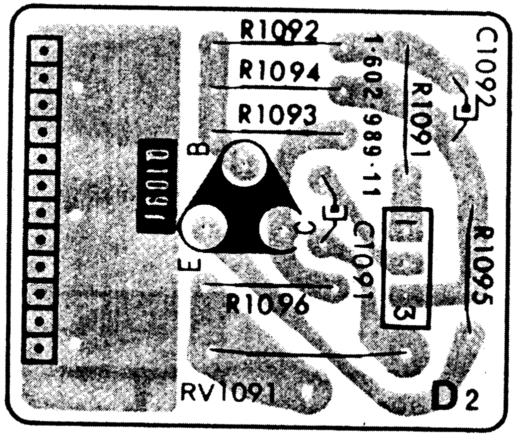
– H Board –


LED401
G A F B H J
C E D K I
IC401
9 10 15
8 7 2 1
STAND BY
IR
SV
E
BR
D
C
B
A
1-600-396-12
S402
S401
H
C404
S404
S403
SONY
H1
H2
H3
φA
φB
φC
φD
C403
S406
S405
S408
S407
D401
C405
R403
R401
LED409
LED408
LED407
LED406
LED405
R405
LED402
LED403
LED404
R404
C401
IC402
1 2 4 6 8
L
U
VC
R402
C402
R406
S410
S409
DOWN
RESET
CLEAR
UP
AUTO PRG
S413
S412
S411

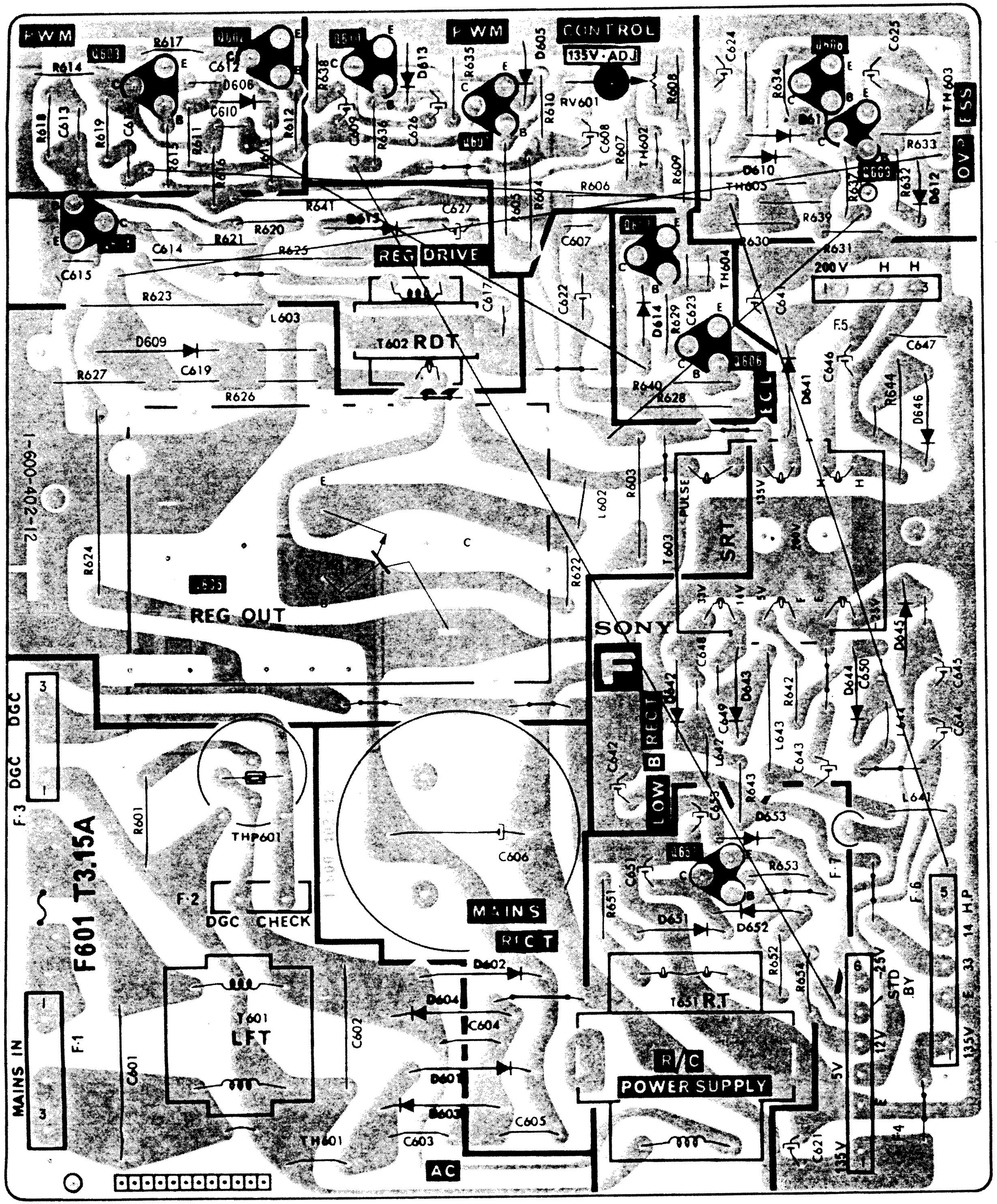
– X Board –


X
1-600-399-12
S2V
SONY
Q153
R158
R151
G
D
S
C151
C152
C159
R152
L151
D151
C153
R153
Q151
C156
Q152
B
E
C
R154
C155
C154
R155
C157
R157
R156
R160
Q154
R159

– D2 Board –

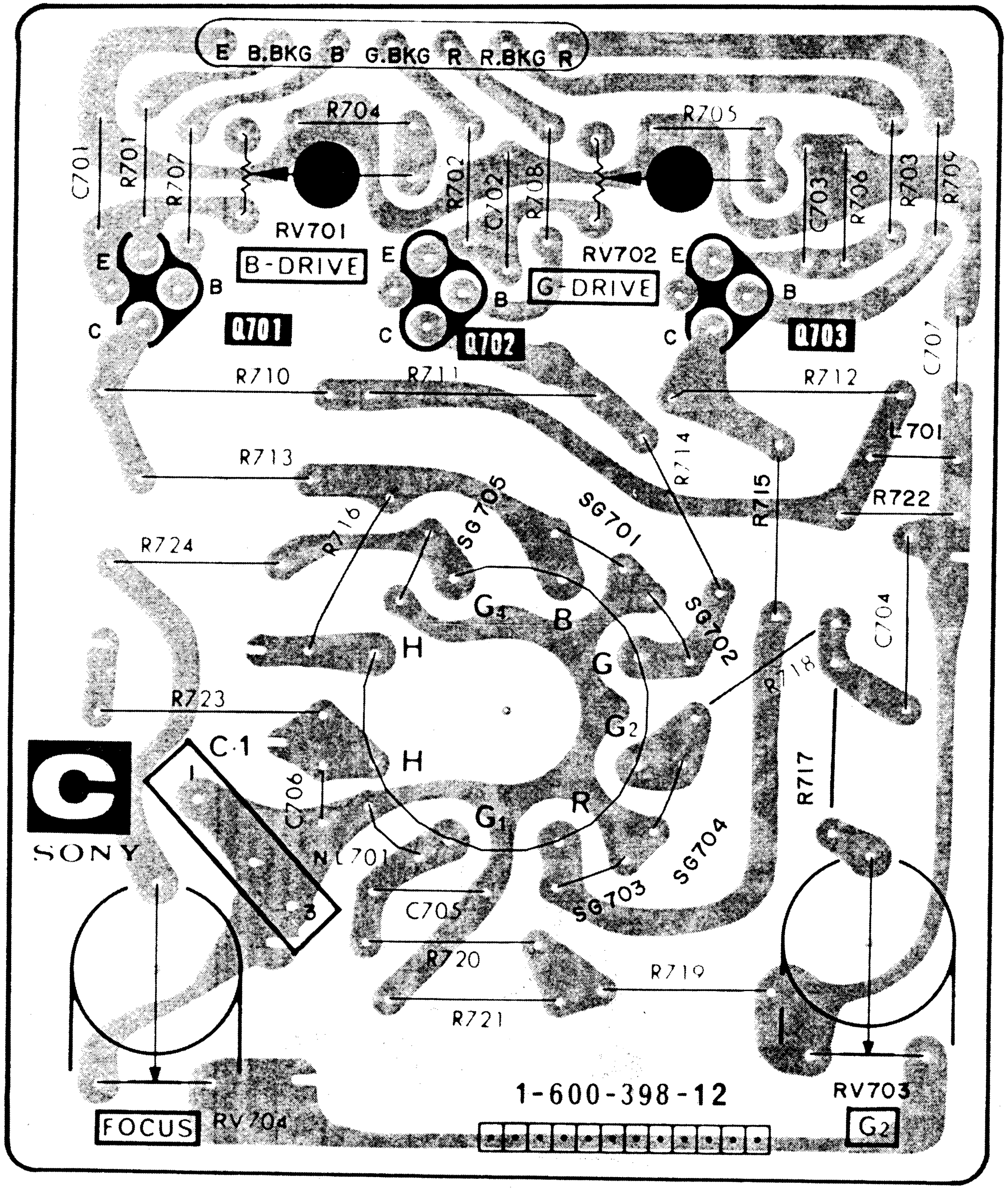

R1092
R1094
R1093
1-602-989-11
C1092
R1091
Q1091
B
E
C
C1091
3
R1095
R1096
RV1091
D2

– F Board –

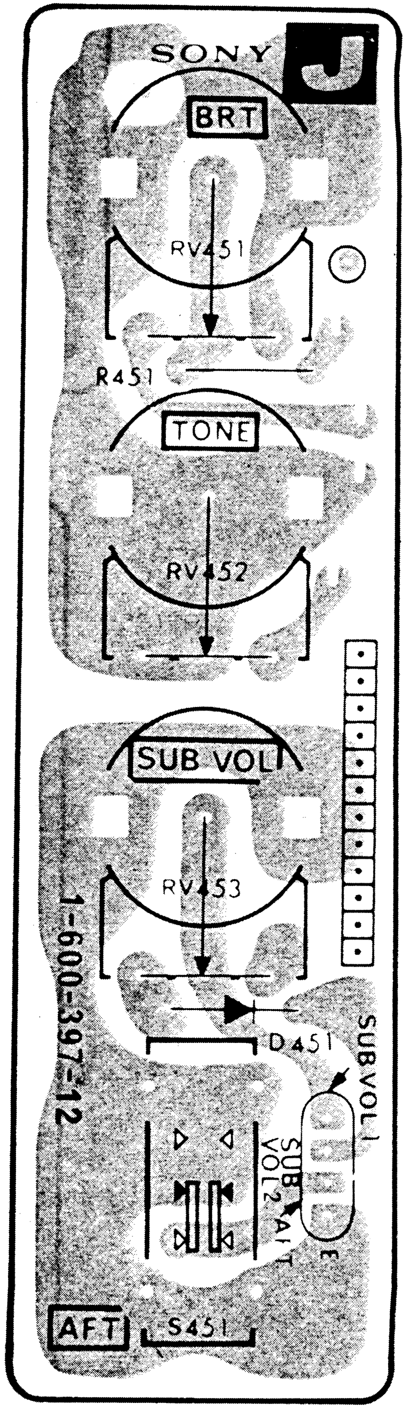

PWM
CONTROL
135V·ADJ
RV601
REG DRIVE
T602 RDT
REG OUT
1-600-402-12
SONY
F
LOW B RECT
SRT
T603
PULSE
200V
ESS
OVP
ECL
DGC
DGC CHECK
THP601
C606
MAINS
RECT
F601 T3.15A
T601 LFT
MAINS IN
T651 RT
R/C POWER SUPPLY
AC
TH601
135V
14 H.P
STD BY
12V
5V
25V
35V
F.1
F.2
F.3
F.5
F.6
F.7

Q, IC	D	ADJ
603		
602	613	RV601
610	605	
601	606	
608		
609		
	611	
	610	
	612	
604	615	
607		
	614	
	609	
606		
	641	
	646	
605		
	645	
	642	
	643	
	644	
	653	
651		
	652	
	651	
	602	
	604	
	601	
	603	
Q, IC	D	ADJ

— C Board —

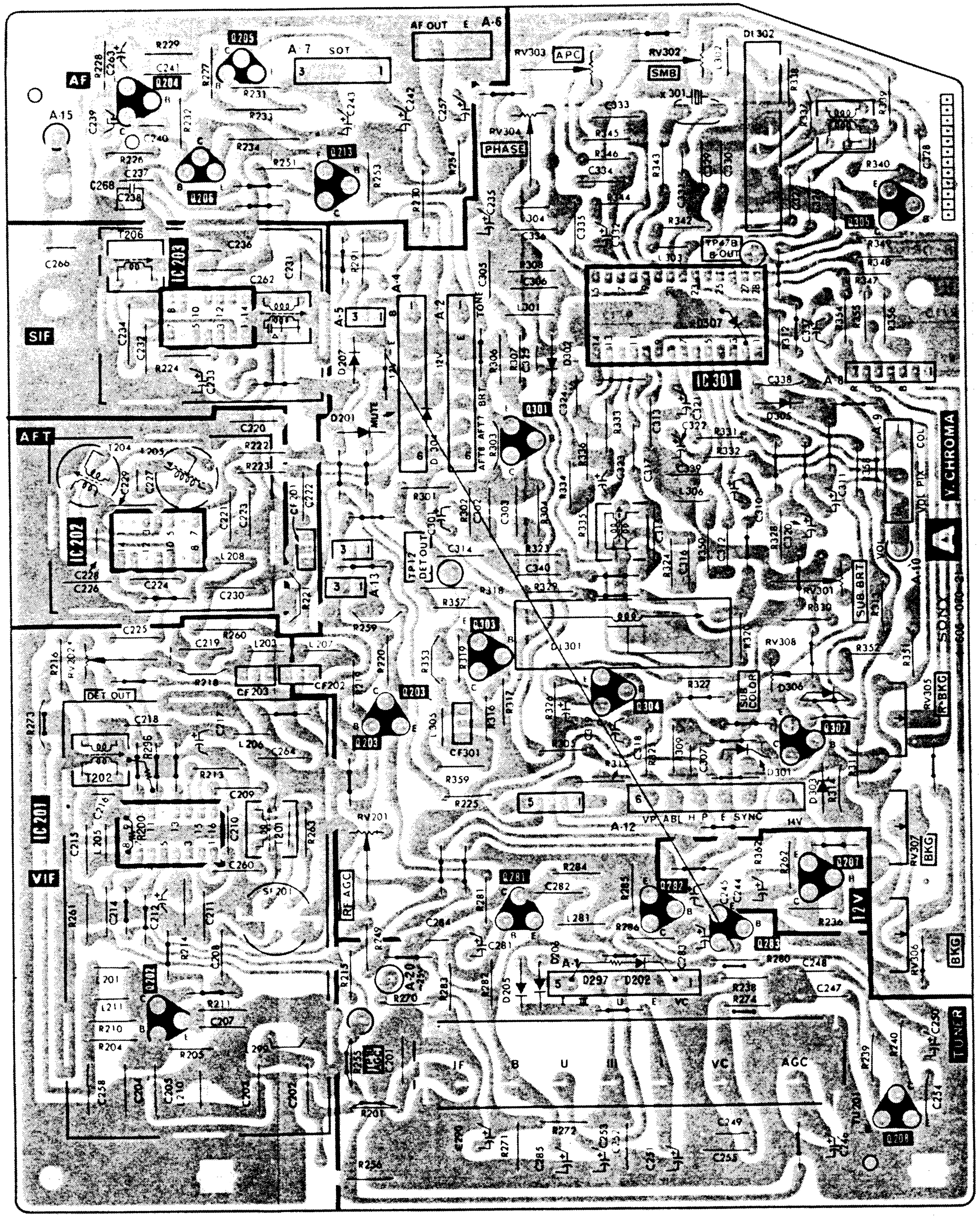

E B.BKG B G.BKG R R.BKG R
R704
R705
C701
R701
R707
RV701
B-DRIVE
R702
C702
R708
RV702
G-DRIVE
C703
R706
R703
R709
E
B
C
Q701
Q702
Q703
R710
R711
R712
C707
L701
R713
R714
R715
R722
R716
SG705
SG701
R724
G4
B
SG702
H
G
R718
C704
R723
G2
C·1
H
C706
R717
C
SONY
G1
R
N L701
SG704
C705
SG703
R720
R719
R721
FOCUS
RV704
1-600-398-12
RV703
G2

— J Board —


SONY
J
BRT
RV451
R451
TONE
RV452
SUB VOL
RV453
1-600-397-12
D451
SUB VOL1
SUB VOL2
AFT
E
AFT
S451

– A Board –

Q, IC	D	ADJ
205		RV302 RV303
204		
		RV304
206 213		
305		
	307	
IC203 IC301		
	207 302	
	201 305	
301	304	
IC202		
		RV301
303		RV305 RV202 RV308
304	306	
203		
302		
	301	
	303	
IC201		
		RV201
207		RV307
281,282 283		RV306
	202 205 206	
202		
208		
Q, IC	D	ADJ


AF
A·15
AF OUT E A·6
A·7 SOT
RV303 APC
RV302 SMB
D1302
RV304 PHASE
SIF
IC203
T206
A·5
A·4
A·2
TP47B B OUT
IC301
A·8
AFT
T204
T205
IC202
MUTE
D201
D207
CF201
A·13
DET OUT
Y CHROMA
VDL PIX COL
A
SUB BRT
RV301
D1301
SONY
DET OUT
T202
CF203
CF202
CF301
RV308
SUB COLOR
RV305 R-BKG
IC201
VIF
RV201
RF AGC
A·12
VP ABL H P E SYNC HV
RV307 BKG
12V
RV306 BKG
TUNER
A·1
A·20
IF B U III VC AGC
SF201

F

ELECTRICAL PARTS LIST

F A

Ref.No	Part No	Description				Remark
	♠:A-1245-140-A	F BOARD, COMPLETE				
		******************				
	♠:1-553-087-00	HOLDER, FUSE				
	3-701-353-00	SPACER, MICA				
	3-703-320-00	BUSHING (A), TRANSISTOR				
	♠:4-314-938-01	RETAINER (TO-3), TRANSISTOR				
	♠:4-317-727-11	HEAT SINK, TRANSISTOR				
		CAPACITOR				
C601 ⚠.	1-108-745-00	MYLAR	0.22MF	20%	300V	
C602 ⚠.	1-108-747-00	MYLAR	0.1MF	20%	300V	
C603	1-102-085-00	CERAMIC	0.0047MF		500V	
C604	1-102-085-00	CERAMIC	0.0047MF		500V	
C605	1-102-085-00	CERAMIC	0.0047MF		500V	
C606	1-125-167-00	ELECT(BLOCK)	250MF		400V	
C607	1-101-845-00	CERAMIC	0.001MF		500V	
C608	1-123-382-00	ELECT	3.3MF	20%	50V	
C609	1-123-379-00	ELECT	0.47MF	20%	50V	
C610	1-130-017-00	FILM	820PF	5%	50V	
C612	1-130-026-00	FILM	0.0047MF	5%	50V	
C613	1-108-381-00	MYLAR	0.022MF	10%	100V	
C614	1-102-030-00	CERAMIC	330PF	10%	500V	
C616	1-101-810-00	CERAMIC	100PF	5%	500V	
C617	1-108-689-11	MYLAR	0.0056MF	10%	200V	
C619	1-102-327-00	CERAMIC	330PF	15%	1.5KV	
C621	1-121-999-00	ELECT	10MF		160V	
C622	1-121-757-00	ELECT	33MF		160V	
C623	1-108-365-00	MYLAR	0.001MF	10%	100V	
C625	1-123-297-00	ELECT	330MF	20%	6.3V	
C626	1-123-380-00	ELECT	1MF	20%	50V	
C627	1-123-252-00	ELECT	1MF		160V	
C641	1-123-254-00	ELECT	10MF		250V	
C642	1-123-362-00	ELECT	330MF	20%	50V	
C643	1-123-334-00	ELECT	220MF	20%	25V	
C644	1-123-308-00	ELECT	220MF	20%	10V	
C645	1-123-356-00	ELECT	10MF	20%	50V	
C646	1-123-334-00	ELECT	220MF	20%	25V	
C647	1-161-731-00	CERAMIC	0.001MF	10%	2KV	
C649	1-102-030-00	CERAMIC	330PF	10%	500V	
C651	1-123-360-00	ELECT	100MF	20%	50V	
C653	1-123-356-00	ELECT	10MF	20%	16V	
		DIODE				
D601	8-719-911-55	DIODE U05G				
D602	8-719-911-55	DIODE U05G				
D603	8-719-911-55	DIODE U05G				
D604	8-719-911-55	DIODE U05G				
D605	8-719-113-25	DIODE RD13E-B2Z				
D606	=>8-719-911-19	DIODE 1SS119				
D609	=>8-719-928-08	DIODE ERD28-08				
D612	=>8-719-911-19	DIODE 1SS119				
D613	=>8-719-911-19	DIODE 1SS119				
D614	=>8-719-911-19	DIODE 1SS119				
D615	=>8-719-900-93	DIODE V09C				
D641	=>8-719-300-76	DIODE RH1A				
D642	=>8-719-924-06	DIODE ERC24-06S				
D643	=>8-719-924-06	DIODE ERC24-06S				
D644	=>8-719-300-76	DIODE RH1A				
D645	=>8-719-300-76	DIODE RH1A				
D646	=>8-719-924-06	DIODE ERC24-06S				
D651	=>8-719-900-93	DIODE V09C				
D652	=>8-719-900-93	DIODE V09C				
D653	8-719-113-25	DIODE RD13E-B2Z				
		CONNECTOR				
F1	1-506-348-XX	3P PLUG (L)				
F2	♠:1-508-786-00	2P PLUG (M)				
F3	1-508-765-00	3P PLUG (M)				
F4	♠:1-508-768-00	6P PLUG				
F5	1-508-765-00	3P PLUG (M)				
F6	♠:1-508-767-00	5P PLUG				
F7	♠:1-508-784-00	1P PLUG				
		FUSE				
F601 ⚠.	1-532-237-00	FUSE, TIME-LAG 3.15AT				
		COIL				
L602	1-407-365-00	COIL, CHOKE				
L603	1-408-300-00	MICRO INDUCTOR 6.8UH				
L641	1-459-215-00	CORE COIL				
L642	1-407-703-00	MICRO INDUCTOR 68UH				
L643	1-407-364-00	COIL, SPOOK CHOKE				
L644	1-407-364-00	COIL, SPOOK CHOKE				
		POSISTOR				
THP601 ⚠	1-800-362-00	THERMISTOR (POSITIVE)				
		TRANSISTOR				
Q601	8-729-117-54	TRANSISTOR 2SA1175				
Q602	8-729-663-47	TRANSISTOR 2SC1364				
Q603	8-729-663-47	TRANSISTOR 2SC1364				
Q604	=>8-729-195-92	TRANSISTOR 2SC2959				
Q605	=>8-729-341-34	TRANSISTOR 2SC1413A				
Q606	8-729-163-93	TRANSISTOR 2SA639S				
Q607	8-729-663-47	TRANSISTOR 2SC1364				
Q608	8-729-117-54	TRANSISTOR 2SA1175				
Q609	8-729-663-47	TRANSISTOR 2SC1364				
Q610	8-729-663-47	TRANSISTOR 2SC1364				
Q651	=>8-729-177-43	TRANSISTOR 2SD774				
		RESISTOR				
R601 ⚠.	1-217-318-00	WIREWOUND	470	10%	5W	F
R603	1-214-475-00	METAL	68K		2W	F
R604	1-213-160-00	METAL	27K	5%	1W	F
R605	1-202-643-00	COMPOSITION	820K	5%	1/2W	
R606	1-213-161-00	METAL	33K	5%	1W	F
R607	1-246-486-00	CARBON	3.6K	5%	1/4W	
R608	1-246-473-00	CARBON	1K	5%	1/4W	
R609	1-246-485-00	CARBON	3.3K	5%	1/4W	
R610	1-246-473-00	CARBON	1K	5%	1/4W	
R611	1-246-489-00	CARBON	4.7K	5%	1/4W	
R612	1-246-509-00	CARBON	33K	5%	1/4W	
R613	1-246-481-00	CARBON	2.2K	5%	1/4W	
R614	1-246-485-00	CARBON	3.3K	5%	1/4W	
R615	1-246-513-00	CARBON	47K	5%	1/4W	
R616	1-246-475-00	CARBON	1.2K	5%	1/4W	
R617	1-246-483-00	CARBON	2.7K	5%	1/4W	
R618	1-246-485-00	CARBON	3.3K	5%	1/4W	
R619	1-246-497-00	CARBON	10K	5%	1/4W	
R620	1-246-521-00	CARBON	100K	5%	1/4W	
R621	1-246-499-00	CARBON	12K	5%	1/4W	
R622	1-246-449-00	CARBON	100	5%	1/4W	
R623	1-206-758-00	METAL	24K	5%	3W	F
R624	1-206-758-00	METAL	24K	5%	3W	F
R625	1-206-696-00	METAL	22K	5%	2W	F
R626	1-211-427-00	CARBON	100	5%	1/8W	F
R627	1-212-358-00	METAL	0.68	5%	1W	F
R628	1-212-353-00	METAL	0.27	5%	1W	F
R629	1-246-511-00	CARBON	39K	5%	1/4W	
R632	1-246-469-00	CARBON	680	5%	1/4W	
R633	1-246-487-00	CARBON	3.9K	5%	1/4W	
R634	1-246-505-00	CARBON	22K	5%	1/4W	
R635	1-246-499-00	CARBON	12K	5%	1/4W	
R636	1-246-497-00	CARBON	10K	5%	1/4W	
R637	1-246-545-00	CARBON	1M	5%	1/4W	
R638	1-246-485-00	CARBON	3.3K	5%	1/4W	
R640	1-246-795-00	CARBON	10K	5%	1/8W	
R641	1-206-749-00	METAL	10K	5%	3W	F
R642	1-246-979-00	CARBON	1.2	5%	1/8W	F
R643	1-246-473-00	CARBON	1K	5%	1/4W	
R644	1-207-451-00	WIREWOUND	0.1	10%	1/2W	
R645	1-217-375-00	FUSIBLE	1	5%	1/4W	F
R651	1-246-979-00	CARBON	1.2	5%	1/8W	F
R652	1-246-979-00	CARBON	1.2	5%	1/8W	F
R653	1-246-489-00	CARBON	4.7K	5%	1/4W	
R691	1-246-513-00	CARBON	47K	5%	1/4W	
R692	1-246-537-00	CARBON	470K	5%	1/4W	
		VARIABLE RESISTOR				
RV601	1-224-643-XX	RES, ADJ, CARBON 2.2K				
		TRANSFORMER				
T601 ⚠.	1-421-352-00	TRANSFORMER, FERRITE				
T602	1-446-194-00	TRANSFORMER, CHOPPER DRIVE				
T603	1-413-040-11	COIL, SERIES REGULATION				
T651 ⚠.	1-446-360-00	TRANSFORMER, POWER				
		THERMISTOR				
TH601 ⚠.	1-800-820-00	THERMISTOR, POWER				
TH602	1-800-070-XX	THERMISTOR TH-4700				
TH603	1-800-202-XX	THERMISTOR S-10K				
TH604	1-800-202-XX	THERMISTOR S-10K				
**						
	♠:A-1295-518-A	A BOARD, COMPLETE				
		******************				
	♠:4-317-752-00	LID, UPPER, SHIELD CASE (A)				
	♠:4-317-753-13	LID, BOTTOM, SHIELD CASE (A)				
	♠:4-317-759-00	SHIELD CASE (A), MAIN				
	♠:4-336-029-00	PLATE, SHIELD				
	♠:4-336-030-00	CASE (MAIN), SHIELD, VIF				
	♠:4-336-031-00	CASE (UPPER), SHIELD, VIF				
	♠:4-336-032-00	CASE (LOWER), SHIELD, VIF				
		CONNECTOR				
A1	♠:1-508-767-00	5P PLUG				
A2	♠:1-508-766-00	4P PLUG (M)				
A4	♠:1-508-768-00	6P PLUG				
A7	1-508-765-00	3P PLUG (M)				
A8	♠:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P				
A9	1-508-765-00	3P PLUG (M)				
A12	♠:1-508-768-00	6P PLUG				
A13	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				
A20	♠:1-508-784-00	1P PLUG				
		CAPACITOR				
C201	1-102-529-00	CERAMIC	100PF	5%	50V	
C202	1-102-527-00	CERAMIC	82PF	5%	50V	
C203	1-161-259-00	CERAMIC	10PF	5%	50V	
C204	1-102-529-00	CERAMIC	100PF	5%	50V	
C205	1-102-527-00	CERAMIC	82PF	5%	50V	
C208	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C209	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C210	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C211	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C212	1-123-369-00	ELECT	4.7MF	20%	50V	
C214	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C215	1-161-280-00	CERAMIC	12PF	5%	50V	
C216	1-102-529-00	CERAMIC	100PF	5%	50V	
C217	1-123-356-00	ELECT	10MF	20%	16V	
C218	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C219	1-161-263-00	CERAMIC	22PF	5%	50V	
C220	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C221	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C222	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C223	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C224	1-161-047-00	CERAMIC	0.0047MF	30%	50V	
C225	1-161-259-00	CERAMIC	10PF	5%	50V	
C226	1-161-047-00	CERAMIC	0.0047MF	30%	50V	

NOTE:

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

f.No	Part No	Description			Remark
27	1-102-852-00	CERAMIC	47PF	5%	50V
28	1-102-525-00	CERAMIC	68PF	5%	50V
29	1-161-249-00	CERAMIC	1.5PF	20%	50V
30	1-161-047-00	CERAMIC	0.0047MF	30%	50V
31	1-101-006-00	CERAMIC	0.047MF		50V
32	1-161-051-00	CERAMIC	0.01MF	30%	25V
33	1-123-328-00	ELECT	4.7MF	20%	25V
34	1-103-725-00	POLYSTYRENE	0.001MF	5%	50V
35	1-123-356-00	ELECT	10MF	20%	16V
36	1-101-006-00	CERAMIC	0.047MF		50V
37	1-108-393-00	MYLAR	0.22MF	10%	100V
38	1-108-365-00	MYLAR	0.001MF	10%	100V
39	1-123-380-00	ELECT	1MF	20%	50V
40	1-101-810-00	CERAMIC	100PF	5%	500V
41	1-161-317-00	CERAMIC	330PF	10%	50V
42	1-123-253-00	ELECT	22MF		160V
43	1-121-999-00	ELECT	10MF		160V
44	1-123-321-00	ELECT	220MF	20%	16V
45	1-123-332-00	ELECT	47MF	20%	16V
46	1-123-356-00	ELECT	10MF	20%	16V
47	1-108-385-00	MYLAR	0.047MF	10%	100V
48	1-108-387-00	MYLAR	0.068MF	10%	100V
50	1-123-356-00	ELECT	10MF	20%	16V
51	1-123-356-00	ELECT	10MF	20%	16V
52	1-108-389-00	MYLAR	0.1MF	10%	100V
53	1-123-356-00	ELECT	10MF	20%	16V
54	1-161-265-00	CERAMIC	33PF	5%	50V
58	1-161-047-00	CERAMIC	0.0047MF	30%	50V
60	1-161-047-00	CERAMIC	0.0047MF	30%	50V
62	1-108-385-00	MYLAR	0.047MF	10%	100V
63	1-123-356-00	ELECT	10MF	20%	16V
64	1-161-047-00	CERAMIC	0.0047MF	30%	50V
68	1-108-385-00	MYLAR	0.047MF	10%	100V
81	1-123-328-00	ELECT	4.7MF	20%	25V
82	1-161-327-00	CERAMIC	0.0033MF	30%	50V
83	1-123-318-00	ELECT	33MF	20%	16V
85	1-123-318-00	ELECT	33MF	20%	16V
90	1-123-333-00	ELECT	100MF	20%	16V
01	1-123-380-00	ELECT	1MF	20%	50V
02	1-108-383-00	MYLAR	0.033MF	10%	100V
03	1-108-367-00	MYLAR	0.0015MF	10%	100V
05	1-161-319-00	CERAMIC	470PF	10%	50V
06	1-161-319-00	CERAMIC	470PF	10%	50V
07	1-101-804-00	CERAMIC	10PF	5%	500V
10	1-123-356-00	ELECT	10MF	20%	16V
11	1-123-380-00	ELECT	1MF	20%	50V
12	1-161-265-00	CERAMIC	33PF	5%	50V
13	1-161-051-00	CERAMIC	0.01MF	30%	25V
14	1-161-269-00	CERAMIC	68PF	5%	50V
15	1-161-271-00	CERAMIC	100PF	5%	50V
16	1-161-315-00	CERAMIC	220PF	10%	50V
17	1-161-051-00	CERAMIC	0.01MF	30%	25V
18	1-123-379-00	ELECT	0.47MF	20%	50V

Ref.No	Part No	Description			Remark
C319	1-123-382-00	ELECT	3.3MF	20%	50V
C320	1-123-328-00	ELECT	4.7MF	20%	25V
C321	1-123-382-00	ELECT	3.3MF	20%	50V
C322	1-123-380-00	ELECT	1MF	20%	50V
C323	1-123-380-00	ELECT	1MF	20%	50V
C324	1-108-389-00	MYLAR	0.1MF	10%	100V
C325	1-101-006-00	CERAMIC	0.047MF		50V
C326	1-161-051-00	CERAMIC	0.01MF	30%	25V
C327	1-161-051-00	CERAMIC	0.01MF	30%	25V
C328	1-161-051-00	CERAMIC	0.01MF	30%	25V
C329	1-161-267-00	CERAMIC	47PF	5%	50V
C330	1-161-262-00	CERAMIC	18PF	5%	50V
C331	1-102-852-00	CERAMIC	47PF	5%	50V
C332	1-123-379-00	ELECT	0.47MF	20%	50V
C333	1-108-385-00	MYLAR	0.047MF	10%	100V
C334	1-108-385-00	MYLAR	0.047MF	10%	100V
C335	1-161-271-00	CERAMIC	100PF	5%	50V
C336	1-161-270-00	CERAMIC	82PF	5%	50V
C337	1-123-332-00	ELECT	47MF	20%	16V
C338	1-161-271-00	CERAMIC	100PF	5%	50V

FILTER

CF201	1-527-263-00	CERAMIC FILTER (5.5MHZ)
CF202	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF203	1-409-333-00	TRAP, CERAMIC (6.0MHZ)
CF301	1-409-332-00	CERAMIC TRAP (4.5MHZ)

DIODE

D201	=>8-719-911-19	DIODE 1SS119
D202	=>8-719-911-19	DIODE 1SS119
D205	=>8-719-911-19	DIODE 1SS119
D206	=>8-719-911-19	DIODE 1SS119
D301	=>8-719-911-19	DIODE 1SS119
D302	=>8-719-911-19	DIODE 1SS119
D303	8-719-143-07	DIODE RD4.3E-B
D304	=>8-719-911-19	DIODE 1SS119
D305	=>8-719-911-19	DIODE 1SS119
D307	=>8-719-911-19	DIODE 1SS119

DELAY LINE

DL301	1-415-188-00	DELAY LINE
DL302	1-415-185-12	DELAY LINE (1H)

IC

IC201	8-759-014-40	IC TBA1440G
IC202	8-759-651-35	IC M5135P
IC203	8-759-001-20	IC TBA120UB
IC301	8-759-113-65	IC UPC1365C

COIL

Ref.No	Part No	Description	Remark
L201	1-407-682-00	MICR INDUCTOR 1.2UH	
L203	1-407-694-00	MICRO INDUCTOR 12UH	
L205	1-407-693-00	MICRO INDUCTOR 10UH	
L206	1-407-687-00	MICRO INDUCTOR 3.3UH	
L207	1-407-695-00	MICRO INDUCTOR 15UH	
L208	1-407-687-00	MICRO INDUCTOR 3.3UH	
L210	1-404-068-00	COIL, VIF	
L211	1-407-687-00	MICRO INDUCTOR 3.3UH	
L281	1-408-247-00	MICRO INDUCTOR 33MMH	
L299	1-404-068-00	COIL, VIF	
L301	1-408-160-00	MICRO INDUCTOR 15MMH	
L302	1-407-189-XX	MICRO INDUCTOR 8.2UH	
L303	1-407-693-00	MICRO INDUCTOR 10UH	
L304	1-407-697-00	MICRO INDUCTOR 22UH	
L305	1-407-698-00	MICRO INDUCTOR 27UH	
L306	1-407-701-00	MICRO INDUCTOR 47UH	

TRANSISTOR

Q202	=>8-725-800-00	TRANSISTOR 2SC1128
Q203	8-729-663-47	TRANSISTOR 2SC1364
Q204	8-729-255-12	TRANSISTOR 2SC2551
Q205	8-729-306-92	TRANSISTOR 2SD669A
Q206	8-729-304-92	TRANSISTOR 2SB649A
Q207	8-729-177-32	TRANSISTOR 2SD773
Q208	=>8-729-663-47	TRANSISTOR 2SC1364
Q281	=>8-729-117-54	TRANSISTOR 2SA1175
Q282	8-729-663-47	TRANSISTOR 2SC1364
Q283	8-729-663-47	TRANSISTOR 2SC1364
Q301	8-729-117-54	TRANSISTOR 2SA1175
Q302	8-729-663-47	TRANSISTOR 2SC1364
Q303	8-729-663-47	TRANSISTOR 2SC1364
Q304	8-729-663-47	TRANSISTOR 2SC1364
Q305	8-729-117-54	TRANSISTOR 2SA1175

RESISTOR

Ref.No	Part No	Description				Remark
R200	1-246-481-00	CARBON	2.2K	5%	1/4W	
R204	1-246-491-00	CARBON	5.6K	5%	1/4W	
R205	1-246-473-00	CARBON	1K	5%	1/4W	
R210	1-246-465-00	CARBON	470	5%	1/4W	
R211	1-246-435-00	CARBON	27	5%	1/4W	
R213	1-246-495-00	CARBON	8.2K	5%	1/4W	
R214	1-246-517-00	CARBON	68K	5%	1/4W	
R215	1-246-527-00	CARBON	180K	5%	1/4W	
R216	1-246-485-00	CARBON	3.3K	5%	1/4W	
R218	1-246-457-00	CARBON	220	5%	1/4W	
R219	1-246-471-00	CARBON	820	5%	1/4W	
R220	1-246-463-00	CARBON	390	5%	1/4W	
R221	1-246-468-00	CARBON	620	5%	1/4W	
R222	1-246-473-00	CARBON	1K	5%	1/4W	
R223	1-246-473-00	CARBON	1K	5%	1/4W	
R224	1-246-489-00	CARBON	4.7K	5%	1/4W	
R225	1-246-491-00	CARBON	5.6K	5%	1/4W	
R226	1-246-477-00	CARBON	1.5K	5%	1/4W	
R227	1-246-530-00	CARBON	240K	5%	1/4W	
R228	1-246-497-00	CARBON	10K	5%	1/4W	
R229	1-246-473-00	CARBON	1K	5%	1/4W	
R230	1-247-008-00	CARBON	180	5%	1/4W	F
R231	1-246-511-00	CARBON	39K	5%	1/4W	
R232	1-246-469-00	CARBON	680	5%	1/4W	
R233	1-211-602-00	CARBON	33	5%	1/2W	F
R234	1-211-602-00	CARBON	33	5%	1/2W	F
R236	1-246-465-00	CARBON	470	5%	1/4W	
R238	1-246-509-00	CARBON	33K	5%	1/4W	
R239	1-246-533-00	CARBON	330K	5%	1/4W	
R240	1-246-481-00	CARBON	2.2K	5%	1/4W	
R249	1-246-479-00	CARBON	1.8K	5%	1/4W	
R256	1-246-487-00	CARBON	3.9K	5%	1/4W	
R259	1-246-461-00	CARBON	330	5%	1/4W	
R260	1-247-005-00	CARBON	100	5%	1/4W	F
R261	1-246-491-00	CARBON	5.6K	5%	1/4W	
R262	1-246-499-00	CARBON	12K	5%	1/4W	
R270	1-246-507-00	CARBON	27K	5%	1/4W	
R271	1-246-503-00	CARBON	18K	5%	1/4W	
R272	1-246-521-00	CARBON	100K	5%	1/4W	
R273	1-211-622-00	CARBON	220	5%	1/2W	F
R274	1-246-485-00	CARBON	3.3K	5%	1/4W	
R280	1-246-485-00	CARBON	3.3K	5%	1/4W	
R281	1-246-455-00	CARBON	180	5%	1/4W	
R282	1-246-513-00	CARBON	47K	5%	1/4W	
R283	1-246-531-00	CARBON	270K	5%	1/4W	
R284	1-246-507-00	CARBON	27K	5%	1/4W	
R285	1-246-467-00	CARBON	560	5%	1/4W	
R286	1-246-521-00	CARBON	100K	5%	1/4W	
R287	1-246-475-00	CARBON	1.2K	5%	1/4W	
R296	1-246-481-00	CARBON	2.2K	5%	1/4W	
R297	1-246-523-00	CARBON	120K	5%	1/4W	
R301	1-246-449-00	CARBON	100	5%	1/4W	
R302	1-246-473-00	CARBON	1K	5%	1/4W	
R303	1-246-513-00	CARBON	47K	5%	1/4W	
R304	1-246-531-00	CARBON	270K	5%	1/4W	
R305	1-246-467-00	CARBON	560	5%	1/4W	
R306	1-246-485-00	CARBON	3.3K	5%	1/4W	
R307	1-246-495-00	CARBON	8.2K	5%	1/4W	
R308	1-246-477-00	CARBON	1.5K	5%	1/4W	
R309	1-246-523-00	CARBON	120K	5%	1/4W	
R311	1-246-473-00	CARBON	1K	5%	1/4W	
R312	1-246-497-00	CARBON	10K	5%	1/4W	
R313	1-246-495-00	CARBON	8.2K	5%	1/4W	
R314	1-246-489-00	CARBON	4.7K	5%	1/4W	
R315	1-246-501-00	CARBON	15K	5%	1/4W	
R316	1-246-485-00	CARBON	3.3K	5%	1/4W	
R317	1-246-485-00	CARBON	3.3K	5%	1/4W	
R318	1-246-477-00	CARBON	1.5K	5%	1/4W	
R319	1-246-473-00	CARBON	1K	5%	1/4W	
R320	1-246-477-00	CARBON	1.5K	5%	1/4W	
R323	1-246-441-00	CARBON	47	5%	1/4W	
R324	1-246-477-00	CARBON	1.5K	5%	1/4W	
R325	1-246-465-00	CARBON	470	5%	1/4W	
R326	1-246-505-00	CARBON	22K	5%	1/4W	
R327	1-246-499-00	CARBON	12K	5%	1/4W	

Ref.No	Part No	Description				Remark
R328	1-246-497-00	CARBON	10K	5%	1/4W	
R329	1-246-497-00	CARBON	10K	5%	1/4W	
R330	1-246-505-00	CARBON	22K	5%	1/4W	
R331	1-246-473-00	CARBON	1K	5%	1/4W	
R332	1-246-485-00	CARBON	3.3K	5%	1/4W	
R333	1-246-519-00	CARBON	82K	5%	1/4W	
R334	1-246-483-00	CARBON	2.7K	5%	1/4W	
R335	1-246-489-00	CARBON	4.7K	5%	1/4W	
R336	1-246-529-00	CARBON	220K	5%	1/4W	
R337	1-246-465-00	CARBON	470	5%	1/4W	
R338	1-246-463-00	CARBON	390	5%	1/4W	
R339	1-246-457-00	CARBON	220	5%	1/4W	
R340	1-246-457-00	CARBON	220	5%	1/4W	
R342	1-246-473-00	CARBON	1K	5%	1/4W	
R343	1-246-471-00	CARBON	820	5%	1/4W	
R344	1-246-481-00	CARBON	2.2K	5%	1/4W	
R345	1-246-507-00	CARBON	27K	5%	1/4W	
R346	1-246-507-00	CARBON	27K	5%	1/4W	
R347	1-246-485-00	CARBON	3.3K	5%	1/4W	
R348	1-246-485-00	CARBON	3.3K	5%	1/4W	
R349	1-246-485-00	CARBON	3.3K	5%	1/4W	
R350	1-246-477-00	CARBON	1.5K	5%	1/4W	
R351	1-246-499-00	CARBON	12K	5%	1/4W	
R352	1-246-495-00	CARBON	8.2K	5%	1/4W	
R353	1-246-459-00	CARBON	270	5%	1/4W	
R354	1-246-461-00	CARBON	330	5%	1/4W	
R355	1-246-461-00	CARBON	330	5%	1/4W	
R356	1-246-461-00	CARBON	330	5%	1/4W	
R357	1-246-501-00	CARBON	15K	5%	1/4W	
R358	1-246-449-00	CARBON	100	5%	1/4W	
R359	1-246-479-00	CARBON	1.8K	5%	1/4W	

VARIABLE RESISTOR

Ref.No	Part No	Description
RV201	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV202	1-224-645-XX	RES, ADJ, CARBON 10K
RV301	1-224-645-XX	RES, ADJ, CARBON 10K
RV302	1-224-641-XX	RES, ADJ, CARBON 470
RV303	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV304	1-226-819-00	RES, ADJ, CARBON 1K
RV305	1-222-344-00	RES, ADJ, CARBON 5K
RV306	1-222-344-00	RES, ADJ, CARBON 5K
RV307	1-222-344-00	RES, ADJ, CARBON 5K
RV308	1-224-644-XX	RES, ADJ, CARBON 4.7K

FILTER

Ref.No	Part No	Description
SF201	1-404-323-00	SAWF (38.9MHZ)

TRANSFORMER

Ref.No	Part No	Description	Remark
T201	1-404-207-00	COIL, VIF	
T202	1-404-203-00	COIL, VIF	
T203	1-404-097-00	COIL, SIFT	
T204	1-403-810-00	TRANSFOMER, AFT DISCRI (PRI)	
T205	1-403-811-00	TRANSFOMER, AFT DISCRI (SEC)	
T206	1-404-135-00	COIL, SIF DISCRI	
T301	1-425-995-00	TRANSFORMER, INPUT	
T303	1-425-928-00	TRANSFORMER, DELAY ADJUSTING	

POST PIN

Ref.No	Part No	Description
TP10	♠:1-535-084-00	1P TERMINAL PIN
TP12	♠:1-535-084-00	1P TERMINAL PIN
TP47B	♠:1-535-084-00	1P TERMINAL PIN

TUNER

Ref.No	Part No	Description
TU201	⚠ 1-463-350-00	TUNER (BT-881)

CRYSTAL

Ref.No	Part No	Description
X301	1-527-345-00	CRYSTAL, OSC

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♠:A-1306-131-A M BOARD, COMPLETE
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Part No	Description
♠:4-336-403-00	CASE (LOWER), SHIELD, M
♠:4-336-404-00	CASE (UPPER), SHIELD, M
♠:4-336-405-00	CASE (MAIN), SHIELD, M

CAPACITOR

Ref.No	Part No	Description				Remark
C001	1-123-380-00	ELECT	1MF	20%	50V	
C002	1-123-380-00	ELECT	1MF	20%	50V	
C003	1-161-313-00	CERAMIC	150PF	10%	50V	
C004	1-161-313-00	CERAMIC	150PF	10%	50V	
C005	1-123-382-00	ELECT	3.3MF	20%	50V	
C006	1-123-356-00	ELECT	10MF	20%	16V	
C007	1-108-425-00	MYLAR	0.022MF	10%	200V	
C008	1-161-265-00	CERAMIC	33PF	5%	50V	
C009	1-123-021-00	ELECT	0.47MF	30%	50V	
C010	1-161-271-00	CERAMIC	100PF	5%	50V	
C011	1-161-271-00	CERAMIC	100PF	5%	50V	
C012	1-123-382-00	ELECT	3.3MF	20%	50V	
C013	1-123-382-00	ELECT	3.3MF	20%	50V	
C014	1-123-159-00	ELECT	1MF	20%	50V	
C015	1-108-385-00	MYLAR	0.047MF	10%	100V	
C016	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C017	1-161-316-00	CERAMIC	270PF	10%	50V	
C018	1-123-381-00	ELECT	2.2MF	20%	50V	
C019	1-108-393-00	MYLAR	0.22MF	10%	100V	
C020	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C021	1-102-973-00	CERAMIC	100PF	5%	50V	
C022	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C023	1-123-380-00	ELECT	1MF	20%	50V	
C024	1-108-389-00	MYLAR	0.1MF	10%	100V	
C025	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C027	1-108-365-00	MYLAR	0.001MF	10%	100V	
C028	1-161-319-00	CERAMIC	470PF	10%	50V	
C029	1-161-319-00	CERAMIC	470PF	10%	50V	
C030	1-123-380-00	ELECT	1MF	20%	50V	
C032	1-123-379-00	ELECT	0.47MF	20%	50V	
C034	1-123-318-00	ELECT	33MF	20%	16V	
C035	1-123-379-00	ELECT	0.47MF	20%	50V	
C037	1-123-330-00	ELECT	22MF	20%	16V	
C039	1-123-380-00	ELECT	1MF	20%	50V	
C040	1-123-356-00	ELECT	10MF	20%	16V	
C041	1-123-356-00	ELECT	10MF	20%	16V	
C042	1-108-377-00	MYLAR	0.01MF	10%	100V	
C043	1-123-382-00	ELECT	3.3MF	20%	50V	
C044	1-123-379-00	ELECT	0.47MF	20%	50V	

FILTER

Ref.No	Part No	Description
CF001	1-527-476-00	OSCILLATOR, CERAMIC

DIODE

Ref.No	Part No	Description
D001	=>8-719-911-19	DIODE 1SS119
D002	=>8-719-911-19	DIODE 1SS119
D003	=>8-719-911-19	DIODE 1SS119
D004	=>8-719-911-19	DIODE 1SS119
D005	=>8-719-911-19	DIODE 1SS119
D007	8-759-157-40	IC UPC574J
D008	8-719-191-07	DIODE RD9.1E-B
D009	=>8-719-911-19	DIODE 1SS119
D010	=>8-719-911-19	DIODE 1SS119

IC

Ref.No	Part No	Description
IC001	8-759-684-85	IC M58485P
IC002	8-759-140-30	IC UPD4030C
IC003	8-759-140-02	IC UPD4002C
IC004	8-759-140-69	IC UPD4069C
IC005	=>8-757-604-00	IC CX760D
IC006	8-757-611-00	IC CX761A
IC007	8-759-040-46	IC MC14046BCP
IC008	8-759-140-12	IC UPD4012C
IC009	8-759-140-11	IC UPD4011C

COIL

Ref.No	Part No	Description
L001	1-407-717-00	MICRO INDUCTOR 1MMH
L002	1-407-717-00	MICRO INDUCTOR 1MMH
L003	1-407-687-00	MICRO INDUCTOR 3.3UH

CONNECTOR

Ref.No	Part No	Description
M1	♠:1-508-786-00	2P PLUG (M)
M2	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
M3	♠:1-508-768-00	6P PLUG
M4	♠:1-508-768-00	6P PLUG
M5	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
M7	♠:1-508-767-00	5P PLUG
M8	1-508-765-00	3P PLUG (M)
M9	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
M10	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
M11	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
M12	♠:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P
M13	♠:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P

TRANSISTOR

Ref.No	Part No	Description
Q001	=>8-729-117-54	TRANSISTOR 2SA1175
Q002	=>8-729-117-54	TRANSISTOR 2SA1175
Q003	=>8-729-117-54	TRANSISTOR 2SA1175
Q004	=>8-729-117-54	TRANSISTOR 2SA1175
Q005	8-729-139-04	TRANSISTOR 2N3904
Q006	=>8-729-178-54	TRANSISTOR 2SC2785
Q007	=>8-729-178-54	TRANSISTOR 2SC2785
Q008	=>8-729-117-54	TRANSISTOR 2SA1175
Q010	=>8-729-117-54	TRANSISTOR 2SA1175
Q011	=>8-769-200-30	TRANSISTOR 2SK107-3
Q012	=>8-729-178-54	TRANSISTOR 2SC2785
Q013	=>8-729-178-54	TRANSISTOR 2SC2785
Q014	=>8-729-178-54	TRANSISTOR 2SC2785
Q015	=>8-729-117-54	TRANSISTOR 2SA1175

RESISTOR

Ref.No	Part No	Description				Rem
R001	1-246-477-00	CARBON	1.5K	5%	1/4W	
R002	1-246-513-00	CARBON	47K	5%	1/4W	
R003	1-246-537-00	CARBON	470K	5%	1/4W	
R004	1-246-505-00	CARBON	22K	5%	1/4W	
R005	1-246-529-00	CARBON	220K	5%	1/4W	
R006	1-246-529-00	CARBON	220K	5%	1/4W	
R007	1-246-529-00	CARBON	220K	5%	1/4W	
R008	1-246-529-00	CARBON	220K	5%	1/4W	
R009	1-246-473-00	CARBON	1K	5%	1/4W	
R010	1-246-491-00	CARBON	5.6K	5%	1/4W	
R011	1-246-491-00	CARBON	5.6K	5%	1/4W	
R012	1-246-491-00	CARBON	5.6K	5%	1/4W	
R013	1-246-491-00	CARBON	5.6K	5%	1/4W	
R014	1-246-499-00	CARBON	12K	5%	1/4W	
R015	1-246-499-00	CARBON	12K	5%	1/4W	
R016	1-246-499-00	CARBON	12K	5%	1/4W	
R017	1-246-499-00	CARBON	12K	5%	1/4W	
R018	1-246-481-00	CARBON	2.2K	5%	1/4W	
R019	1-246-513-00	CARBON	47K	5%	1/4W	
R020	1-246-513-00	CARBON	47K	5%	1/4W	
R021	1-246-497-00	CARBON	10K	5%	1/4W	
R022	1-246-497-00	CARBON	10K	5%	1/4W	
R023	1-246-537-00	CARBON	470K	5%	1/4W	
R024	1-246-507-00	CARBON	27K	5%	1/4W	
R025	1-246-503-00	CARBON	18K	5%	1/4W	
R026	1-246-489-00	CARBON	4.7K	5%	1/4W	
R027	1-246-495-00	CARBON	8.2K	5%	1/4W	
R028	1-217-394-00	FUSIBLE	39	5%	1/4W	F
R029	1-246-505-00	CARBON	22K	5%	1/4W	
R030	1-246-505-00	CARBON	22K	5%	1/4W	
R031	1-246-497-00	CARBON	10K	5%	1/4W	
R032	1-246-505-00	CARBON	22K	5%	1/4W	
R033	1-246-497-00	CARBON	10K	5%	1/4W	
R034	1-246-509-00	CARBON	33K	5%	1/4W	

ef.No	Part No	Description				Remark
035	1-246-501-00	CARBON	15K	5%	1/4W	
036	1-246-507-00	CARBON	27K	5%	1/4W	
037	1-246-511-00	CARBON	39K	5%	1/4W	
038	1-246-503-00	CARBON	18K	5%	1/4W	
039	1-246-489-00	CARBON	4.7K	5%	1/4W	
040	1-246-511-00	CARBON	39K	5%	1/4W	
041	1-246-497-00	CARBON	10K	5%	1/4W	
042	1-246-513-00	CARBON	47K	5%	1/4W	
043	1-246-505-00	CARBON	22K	5%	1/4W	
044	1-246-505-00	CARBON	22K	5%	1/4W	
045	1-246-489-00	CARBON	4.7K	5%	1/4W	
046	1-246-489-00	CARBON	4.7K	5%	1/4W	
047	1-246-505-00	CARBON	22K	5%	1/4W	
048	1-202-667-00	COMPOSITION	8.2M	10%	1/2W	
049	1-246-509-00	CARBON	33K	5%	1/4W	
050	1-246-535-00	CARBON	390K	5%	1/4W	
051	1-246-509-00	CARBON	33K	5%	1/4W	
052	1-206-698-00	METAL	27K	5%	2W	F
053	1-246-485-00	CARBON	3.3K	5%	1/4W	
054	1-246-505-00	CARBON	22K	5%	1/4W	
055	1-246-537-00	CARBON	470K	5%	1/4W	
056	1-246-513-00	CARBON	47K	5%	1/4W	
057	1-246-509-00	CARBON	33K	5%	1/4W	
058	1-246-529-00	CARBON	220K	5%	1/4W	
059	1-246-473-00	CARBON	1K	5%	1/4W	
060	1-246-485-00	CARBON	3.3K	5%	1/4W	
061	1-246-523-00	CARBON	120K	5%	1/4W	
062	1-246-513-00	CARBON	47K	5%	1/4W	
063	1-246-481-00	CARBON	2.2K	5%	1/4W	
064	1-246-521-00	CARBON	100K	5%	1/4W	
065	1-202-463-00	COMPOSITION	2.2M	5%	1/4W	
066	1-246-473-00	CARBON	1K	5%	1/4W	
067	1-246-503-00	CARBON	18K	5%	1/4W	
069	1-246-523-00	CARBON	120K	5%	1/4W	
070	1-246-497-00	CARBON	10K	5%	1/4W	
071	1-246-543-00	CARBON	820K	5%	1/4W	
072	1-246-529-00	CARBON	220K	5%	1/4W	
073	1-246-461-00	CARBON	330	5%	1/4W	
074	1-246-497-00	CARBON	10K	5%	1/4W	
075	1-246-499-00	CARBON	12K	5%	1/4W	
076	1-246-503-00	CARBON	18K	5%	1/4W	
077	1-246-489-00	CARBON	4.7K	5%	1/4W	
078	1-246-537-00	CARBON	470K	5%	1/4W	
079	1-246-545-00	CARBON	1M	5%	1/4W	
080	1-246-545-00	CARBON	1M	5%	1/4W	
081	1-246-521-00	CARBON	100K	5%	1/4W	
082	1-246-531-00	CARBON	270K	5%	1/4W	
083	1-246-509-00	CARBON	33K	5%	1/4W	
084	1-246-509-00	CARBON	33K	5%	1/4W	
085	1-246-497-00	CARBON	10K	5%	1/4W	
086	1-246-497-00	CARBON	10K	5%	1/4W	
087	1-246-509-00	CARBON	33K	5%	1/4W	
088	1-246-473-00	CARBON	1K	5%	1/4W	

Ref.No	Part No	Description				Remark
R089	1-246-505-00	CARBON	22K	5%	1/4W	
R090	1-246-497-00	CARBON	10K	5%	1/4W	
R091	1-246-537-00	CARBON	470K	5%	1/4W	
R092	1-246-505-00	CARBON	22K	5%	1/4W	
R093	1-246-473-00	CARBON	1K	5%	1/4W	
R094	1-246-473-00	CARBON	1K	5%	1/4W	
R095	1-246-473-00	CARBON	1K	5%	1/4W	
R096	1-246-489-00	CARBON	4.7K	5%	1/4W	
R097	1-246-497-00	CARBON	10K	5%	1/4W	
R098	1-246-485-00	CARBON	3.3K	5%	1/4W	
R099	1-246-473-00	CARBON	1K	5%	1/4W	

VARIABLE RESISTOR

Ref.No	Part No	Description
RV001	1-224-645-XX	RES, ADJ, CARBON 10K

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▲:A-1330-314-A C BOARD, COMPLETE

Ref.No	Part No	Description
	1-526-086-XX	SOCKET, CRT
	1-592-036-11	PC BOARD, H COMBINED
	1-600-398-00	PC BOARD, C

CONNECTOR

Ref.No	Part No	Description
A8	▲:1-551-797-00	CONNECTOR 7P
C1	1-508-765-00	3P PLUG (M)

CAPACITOR

Ref.No	Part No	Description				Remark
C701	1-161-313-00	CERAMIC	150PF	10%	50V	
C702	1-161-313-00	CERAMIC	150PF	10%	50V	
C703	1-161-315-00	CERAMIC	220PF	10%	50V	
C704	1-129-718-00	FILM	0.022MF	10%	630V	
C705	1-108-433-00	MYLAR	0.1MF	10%	200V	
C707	1-102-155-00	CERAMIC	330PF	20%	2KV	

CONNECTOR

Ref.No	Part No	Description
E2	▲:1-551-854-00	CONNECTOR ASSY 1P
F5	▲:1-551-450-00	CONNECTOR ASSY, 3P

COIL

Ref.No	Part No	Description
L701	1-407-710-00	MICRO INDUCTOR 270UH

NEON LAMP

Ref.No	Part No	Description
NL701	1-519-108-XX	LAMP, NEON ASSY

TRANSFORMER

Ref.No	Part No	Description
Q701	8-729-322-78	TRANSISTOR 2SC2278
Q702	8-729-322-78	TRANSISTOR 2SC2278
Q703	8-729-322-78	TRANSISTOR 2SC2278

RESISTOR

Ref.No	Part No	Description				Remark
R701	1-246-485-00	CARBON	3.3K	5%	1/4W	
R702	1-246-485-00	CARBON	3.3K	5%	1/4W	
R703	1-246-485-00	CARBON	3.3K	5%	1/4W	
R704	1-246-461-00	CARBON	330	5%	1/4W	
R705	1-246-459-00	CARBON	270	5%	1/4W	
R706	1-246-461-00	CARBON	330	5%	1/4W	
R707	1-246-457-00	CARBON	220	5%	1/4W	
R708	1-246-457-00	CARBON	220	5%	1/4W	
R709	1-246-457-00	CARBON	220	5%	1/4W	
R710	1-206-692-00	METAL	15K	5%	2W	F
R711	1-206-692-00	METAL	15K	5%	2W	F
R712	1-206-692-00	METAL	15K	5%	2W	F
R713	1-202-585-00	COMPOSITION	3.3K	5%	1/2W	
R714	1-202-585-00	COMPOSITION	3.3K	5%	1/2W	
R715	1-202-585-00	COMPOSITION	3.3K	5%	1/2W	
R716	1-202-639-00	COMPOSITION	560K	10%	1/2W	
R717	1-202-645-00	COMPOSITION	1M	10%	1/2W	
R718	1-202-621-00	COMPOSITION	100K	10%	1/2W	
R719	1-202-635-00	COMPOSITION	390K	10%	1/2W	
R720	1-202-633-00	COMPOSITION	330K	10%	1/2W	
R721	1-202-619-00	COMPOSITION	82K	10%	1/2W	
R724	1-202-645-00	COMPOSITION	1M	10%	1/2W	

VARIABLE RESISTOR

Ref.No	Part No	Description
RV701	1-226-105-00	RES, ADJ, CARBON 220
RV702	1-226-105-00	RES, ADJ, CARBON 220
RV703	1-226-157-00	RES, ADJ, METAL GLAZE 1M
RV704	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M

SPARK GAP

Ref.No	Part No	Description
SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP
SG704	1-519-063-XX	DISCHARGING GAP
SG705	1-519-063-XX	DISCHARGING GAP

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▲:1-602-989-00 D2 BOARD

CONNECTOR

Ref.No	Part No	Description
B9	▲:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P

CAPACITOR

Ref.No	Part No	Description				Remark
C1091	1-123-356-00	ELECT	10MF	20%	50V	
C1092	1-123-380-00	ELECT	1MF	20%	50V	

TRANSISTOR

Ref.No	Part No	Description
Q1091=>8-729-178-54		TRANSISTOR 2SC2785

RESISTOR

Ref.No	Part No	Description				Remark
R1091	1-246-497-00	CARBON	10K	5%	1/4W	
R1092	1-246-503-00	CARBON	18K	5%	1/4W	
R1093	1-246-487-00	CARBON	3.9K	5%	1/4W	
R1094	1-246-509-00	CARBON	33K	5%	1/4W	
R1095	1-246-467-00	CARBON	560	5%	1/4W	
R1096	1-246-497-00	CARBON	10K	5%	1/4W	

VARIABLE RESISTOR

Ref.No	Part No	Description
RV1091	1-222-807-XX	RES, ADJ, CARBON 20K

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▲:A-1345-270-A D BOARD, COMPLETE

Ref.No	Part No	Description
	▲:1-555-614-00	CONNECTOR ASSY (2.5MM) 3P
	▲:4-342-076-00	HEAT SINK, V.OUT

CAPACITOR

Ref.No	Part No	Description				Remark
C501	1-123-380-00	ELECT	1MF	20%	50V	
C502	1-123-333-00	ELECT	100MF	20%	16V	
C503	1-108-373-00	MYLAR	0.0047MF	10%	100V	
C504	1-108-373-00	MYLAR	0.0047MF	10%	100V	
C505	1-108-389-00	MYLAR	0.1MF	10%	100V	
C506	1-108-385-00	MYLAR	0.047MF	10%	100V	
C507	1-106-188-00	MYLAR	0.0047MF	5%	100V	
C508	1-123-330-00	ELECT	22MF	20%	16V	
C509	1-123-363-00	ELECT	470MF	20%	50V	
C510	1-123-356-00	ELECT	10MF	20%	50V	
C511	1-102-050-00	CERAMIC	0.01MF		500V	
C512	1-123-356-00	ELECT	10MF	20%	50V	
C513	1-106-224-00	MYLAR	0.15MF	10%	100V	
C514	1-123-269-00	ELECT	4.7MF	20%	160V	
C515	1-108-425-00	MYLAR	0.022MF	10%	200V	
C516	1-129-708-00	FILM	0.0033MF	10%	630V	
C517	1-108-425-00	MYLAR	0.022MF	10%	200V	
C518	1-108-393-00	MYLAR	0.22MF	10%	100V	
C519	1-108-389-00	MYLAR	0.1MF	10%	100V	
C524	1-129-701-00	FILM	0.01MF	5%	100V	
C526	1-106-188-00	MYLAR	0.0047MF	5%	100V	
C528	1-108-425-00	MYLAR	0.022MF	10%	200V	
C529	1-131-199-00	TANTALUM	10MF	20%	16V	
C530	1-123-345-00	ELECT	100MF	20%	35V	
C531	1-123-382-00	ELECT	3.3MF	20%	50V	
C532	1-123-330-00	ELECT	22MF	20%	25V	
C533	1-123-330-00	ELECT	22MF	20%	16V	
C534	1-123-381-00	ELECT	2.2MF	20%	50V	
C536	1-108-375-00	MYLAR	0.0068MF	10%	100V	
C539	1-108-637-00	MYLAR	0.082MF	10%	100V	
C540	1-108-382-00	MYLAR	0.027MF	10%	100V	
C541	1-123-380-00	ELECT	1MF	20%	50V	
C542	1-123-369-00	ELECT	4.7MF	20%	50V	

Ref.No	Part No	Description				Remark
C543	1-108-377-00	MYLAR	0.01MF	10%	100V	
C544	1-108-389-00	MYLAR	0.1MF	10%	100V	
C545	1-108-369-00	MYLAR	0.0022MF	10%	100V	
C546	1-102-030-00	CERAMIC	330PF	10%	500V	
C547	1-123-332-00	ELECT	47MF	20%	16V	
C548	1-123-380-00	ELECT	1MF	20%	50V	
C549	1-108-389-00	MYLAR	0.1MF	10%	100V	
C552	1-123-333-00	ELECT	100MF	20%	16V	
C597	1-102-030-00	CERAMIC	330PF	10%	500V	
C599	1-102-030-00	CERAMIC	330PF	10%	500V	

CONNECTOR

Ref.No	Part No	Description	Remark
D1	♠:1-508-767-00	5P PLUG	
D2	♠:1-508-768-00	6P PLUG	
D3	♠:1-508-768-00	6P PLUG	
D4	♠:1-508-768-00	6P PLUG	
D7	1-508-765-00	3P PLUG (M)	
D8	1-508-765-00	3P PLUG (M)	
D9	♠:1-508-784-00	1P PLUG	

DIODE

Ref.No	Part No	Description	Remark
D501	=>8-719-911-19	DIODE 1SS119	
D503	=>8-719-900-93	DIODE V09C	
D504	=>8-719-911-19	DIODE 1SS119	
D505	8-719-300-76	DIODE RH-1A	
D506	8-719-300-76	DIODE RH-1A	
D507	=>8-719-900-93	DIODE V09C	
D508	8-719-113-25	DIODE RD13E-B2Z	
D509	=>8-719-911-19	DIODE 1SS119	
D510	=>8-719-911-19	DIODE 1SS119	
D511	=>8-719-911-19	DIODE 1SS119	
D512	=>8-719-911-19	DIODE 1SS119	

IC

Ref.No	Part No	Description	Remark
IC501	8-751-570-00	IC CX-157	

COIL

Ref.No	Part No	Description	Remark
L501	1-459-105-21	COIL(WITH CORE)	
L502	1-408-246-00	MICRO INDUCTOR 27MMH	
L503	1-408-246-00	MICRO INDUCTOR 27MMH	
L506	1-408-242-00	MICRO INDUCTOR 10MMH	
L507	1-408-247-00	MICRO INDUCTOR 33MMH	
L508	1-435-055-21	COIL, PHASE ADJUST	
L510	1-407-188-XX	MICRO INDUCTOR 6.8UH	

TRANSISTOR

Ref.No	Part No	Description	Remark
Q501	8-729-663-47	TRANSISTOR 2SC1364	
Q502	=>8-729-195-92	TRANSISTOR 2SC2959	
Q503	8-729-169-02	TRANSISTOR 2SC2690A-Q	
Q504	8-729-122-02	TRANSISTOR 2SA1220A-Q	
Q506	=>8-729-374-02	TRANSISTOR 2SB740	
Q507	=>8-729-195-92	TRANSISTOR 2SC2959	
Q508	8-729-663-47	TRANSISTOR 2SC1364	
Q509	8-729-663-47	TRANSISTOR 2SC1364	
Q510	8-729-663-47	TRANSISTOR 2SC1364	
Q511	8-729-373-92	TRANSISTOR 2SB739	
Q512	=>8-729-117-54	TRANSISTOR 2SA1175	

RESISTOR

Ref.No	Part No	Description				Remark
R501	1-246-497-00	CARBON	10K	5%	1/4W	
R502	1-246-501-00	CARBON	15K	5%	1/4W	
R503	1-246-490-00	CARBON	5.1K	5%	1/4W	
R504	1-246-497-00	CARBON	10K	5%	1/4W	
R505	1-246-545-00	CARBON	1M	5%	1/4W	
R506	1-246-511-00	CARBON	39K	5%	1/4W	
R507	1-246-521-00	CARBON	100K	5%	1/4W	
R508	1-246-515-00	CARBON	56K	5%	1/4W	
R509	1-214-791-00	METAL	220K	5%	1/4W	
R510	1-246-443-00	CARBON	56	5%	1/4W	
R511	1-246-507-00	CARBON	27K	5%	1/4W	
R512	1-246-481-00	CARBON	2.2K	5%	1/4W	
R515	1-246-494-00	CARBON	7.5K	5%	1/4W	
R516	1-246-483-00	CARBON	2.7K	5%	1/4W	
R517	1-246-477-00	CARBON	1.5K	5%	1/4W	
R518	1-212-360-00	METAL	1	5%	1W	F
R519	1-213-140-00	METAL	560	5%	1W	F
R520	1-213-142-00	METAL	820	5%	1W	F
R521	1-246-477-00	CARBON	1.5K	5%	1/4W	
R522	1-244-875-00	CARBON	1.2K	5%	1/2W	
R523	1-217-394-00	FUSIBLE	39	5%	1/4W	F
R524	1-211-930-00	CARBON	33	5%	1/8W	F
R525	1-211-409-00	CARBON	10	5%	1/4W	F
R526	1-212-361-00	METAL	1.2	5%	1W	F
R527	1-212-361-00	METAL	1.2	5%	1W	F
R529	1-246-483-00	CARBON	2.7K	5%	1/4W	
R530	1-246-497-00	CARBON	10K	5%	1/4W	
R531	1-244-925-00	CARBON	150K	5%	1/2W	
R532	1-246-497-00	CARBON	10K	5%	1/4W	
R533	1-246-483-00	CARBON	2.7K	5%	1/4W	
R534	1-246-525-00	CARBON	150K	5%	1/4W	
R538	1-246-497-00	CARBON	10K	5%	1/4W	
R540	1-246-497-00	CARBON	10K	5%	1/4W	
R541	1-246-429-00	CARBON	15	5%	1/4W	
R542	1-246-497-00	CARBON	10K	5%	1/4W	
R543	1-206-642-00	METAL	120	5%	2W	F
R544	1-246-507-00	CARBON	27K	5%	1/4W	
R545	1-246-481-00	CARBON	2.2K	5%	1/4W	
R547	1-246-461-00	CARBON	330	5%	1/4W	
R551	1-244-875-00	CARBON	1.2K	5%	1/2W	
R552	1-213-135-00	METAL	220	5%	1W	F
R553	1-213-124-00	METAL	27	5%	1W	F
R555	1-246-451-00	CARBON	120	5%	1/4W	
R557	1-246-497-00	CARBON	10K	5%	1/4W	
R558	1-246-483-00	CARBON	2.7K	5%	1/4W	
R559	1-246-484-00	CARBON	3K	5%	1/4W	
R561	1-246-513-00	CARBON	47K	5%	1/4W	
R562	1-246-463-00	CARBON	390	5%	1/4W	
R564	1-246-473-00	CARBON	1K	5%	1/4W	
R565	1-246-493-00	CARBON	6.8K	5%	1/4W	
R566	1-246-486-00	CARBON	3.6K	5%	1/4W	
R567	1-246-467-00	CARBON	560	5%	1/4W	
R568	1-246-479-00	CARBON	1.8K	5%	1/4W	
R570	1-246-486-00	CARBON	3.6K	5%	1/4W	
R571	1-246-485-00	CARBON	3.3K	5%	1/4W	
R572	1-246-497-00	CARBON	10K	5%	1/4W	
R573	1-246-507-00	CARBON	27K	5%	1/4W	
R574	1-246-481-00	CARBON	2.2K	5%	1/4W	
R575	1-213-126-00	METAL	39	5%	1W	F
R576	1-246-449-00	CARBON	100	5%	1/4W	
R579	1-246-461-00	CARBON	330	5%	1/4W	
R580	1-246-479-00	CARBON	1.8K	5%	1/4W	
R581	1-246-505-00	CARBON	22K	5%	1/4W	
R582	1-246-467-00	CARBON	560	5%	1/4W	
R583	1-246-503-00	CARBON	18K	5%	1/4W	
R584	1-246-481-00	CARBON	2.2K	5%	1/4W	
R585	1-246-457-00	CARBON	220	5%	1/4W	
R590	1-246-517-00	CARBON	68K	5%	1/4W	
R592	1-244-875-00	CARBON	1.2K	5%	1/2W	

VARIABLE RESISTOR

Ref.No	Part No	Description	Remark
RV501	1-224-972-00	RES, VAR, CARBON (SNAP IN) 20K	
RV502	1-222-807-XX	RES, ADJ, CARBON 20K	
RV503	1-221-970-XX	RES, ADJ, CARBON 500	
RV504	1-221-956-XX	RES, ADJ, CARBON 50K	
RV505	1-226-819-00	RES, ADJ, CARBON 1K	
RV506	1-222-807-XX	RES, ADJ, CARBON 20K	
RV509	1-221-970-XX	RES, ADJ, CARBON 500	
RV510	1-222-344-00	RES, ADJ, CARBON 5K	
RV511	1-224-640-XX	RES, ADJ, CARBON 330	

TRANSFORMER

Ref.No	Part No	Description	Remark
T501	1-421-245-11	TRANSFOMER, PZN CUSHION	

THERMISTER

Ref.No	Part No	Description	Remark
TH502	1-800-070-XX	THERMISTOR 5K	
TH503	1-800-378-00	THERMISTOR S-150	

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♠:A-1345-271-A E BOARD, COMPLETE

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CAPACITOR

Ref.No	Part No	Description				Re
C801	1-123-356-00	ELECT	10MF	20%	25V	
C802	1-108-369-00	MYLAR	0.0022MF	10%	100V	
C803	1-130-228-00	FILM	0.011MF	3%	1.2KV	
C804	1-102-030-00	CERAMIC	330PF	10%	500V	
C805	1-108-383-00	MYLAR	0.033MF	10%	100V	
C806	1-108-383-00	MYLAR	0.033MF	10%	100	
C807	1-108-387-00	MYLAR	0.068MF	10%	100	
C809	1-130-272-00	FILM	0.033MF	5%	100	
C810	1-108-389-00	MYLAR	0.1MF	10%	100	
C811	1-123-379-00	ELECT	0.47MF	20%	50V	
C812	1-108-421-00	MYLAR	0.01MF	10%	200	
C813	1-102-228-00	CERAMIC	470PF	10%	500	
C814	1-102-212-00	CERAMIC	820PF	10%	500	
C815	1-102-223-00	CERAMIC	0.0047MF	20%	1.6	
C817	1-123-333-00	ELECT	100MF	20%	16V	
C818	1-123-333-00	ELECT	100MF	20%	16V	
C820	1-123-310-00	ELECT	470MF	20%	10V	
C823	1-102-249-00	CERAMIC	680PF	20%	2KV	
C824	1-130-157-00	FILM	1MF	5%	200	
C826	1-129-949-00	FILM	1MF	5%	400	
C827	1-108-437-00	MYLAR	0.22MF	10%	200	
C828	1-121-757-00	ELECT	33MF		160	
C829	1-123-328-00	ELECT	4.7MF	20%	25V	
C830	1-108-421-00	MYLAR	0.01MF	10%	200	
C831	1-108-433-00	MYLAR	0.1MF	10%	200	
C832	1-108-389-00	MYLAR	0.1MF	10%	10	
C833	1-123-379-00	ELECT	0.47MF	20%	50V	
C835	1-102-155-00	CERAMIC	330PF	20%	2KV	
C836	1-102-249-00	CERAMIC	680PF	20%	2KV	
C840	1-161-513-00	CERAMIC	470PF	20%	1.	

DIODE

Ref.No	Part No	Description	Remark
D801	=>8-719-911-19	DIODE 1SS119	
D802	=>8-719-911-19	DIODE 1SS119	
D803	8-719-926-20	DIODE ERB26-20	
D805	8-719-900-93	DIODE V09C	
D806	8-719-900-93	DIODE V09C	
D810	=>8-719-305-15	DIODE GH3F	
D811	=>8-719-928-08	DIODE ERD28-08	

CONNECTOR

Ref.No	Part No	Description	Remark
E1	♠:1-508-768-00	6P PLUG	
E3	♠:1-508-767-00	5P PLUG	
E5	♠:1-508-784-00	1P PLUG	
E6	♠:1-508-786-00	2P PLUG (M)	

COIL

Ref.No	Part No	Description	Remark
L803	1-459-059-00	COIL, DUST CORE	
L805	1-408-225-00	MICRO INDUCTOR 3.3UH	
L806	1-407-365-00	COIL, CHOKE	
L808	1-408-225-00	MICRO INDUCTOR 3.3UH	
L809	1-408-225-00	MICRO INDUCTOR 3.3UH	
L810	1-459-125-00	COIL, HORIZONTAL LINEARITY	
L811	1-459-263-00	COIL, MODULATION	
L812	1-408-241-00	MICRO INDUCTOR 8.2MMH	
L814	1-407-365-00	COIL, CHOKE	
L815	1-459-215-00	CORE COIL	

ef.No	Part No	Description				Remark
		TRANSISTOR				
801	8-729-117-54	TRANSISTOR 2SA1175				
802	=>8-729-372-31	TRANSISTOR 2SC1723				
		RESISTOR				
801	1-246-473-00	CARBON	1K	5%	1/4W	
803	1-202-597-00	COMPOSITION	10K	5%	1/2W	
804	1-246-495-00	CARBON	8.2K	5%	1/4W	
805	1-246-501-00	CARBON	15K	5%	1/4W	
806	1-246-491-00	CARBON	5.6K	5%	1/4W	
807	1-246-473-00	CARBON	1K	5%	1/4W	
808	1-246-479-00	CARBON	1.8K	5%	1/4W	
809	1-213-162-00	METAL	39K	5%	1W	F
810	1-246-437-00	CARBON	33	5%	1/4W	
811	1-246-413-00	CARBON	3.3	5%	1/4W	
812	1-246-511-00	CARBON	39K	5%	1/4W	
813	1-246-465-00	CARBON	470	5%	1/4W	
814	1-246-467-00	CARBON	560	5%	1/4W	
815	1-246-521-00	CARBON	100K	5%	1/4W	
816	1-206-733-00	METAL	2.2K	5%	3W	F
817	1-246-489-00	CARBON	4.7K	5%	1/4W	
818	1-202-635-00	COMPOSITION	390K	5%	1/2W	
819	1-246-783-00	CARBON	1K	5%	1/8W	F
820	1-212-376-00	METAL	22	5%	1W	F
821	1-206-443-00	METAL	1.5	5%	2W	F
822	1-202-589-00	COMPOSITION	4.7K	5%	1/2W	
824	1-212-360-00	METAL	1	5%	1W	F
825	1-206-664-00	METAL	1K	5%	2W	F
826	1-246-481-00	CARBON	2.2K	5%	1/4W	
827	1-213-133-00	METAL	150	5%	1W	F
828	1-206-443-00	METAL	1.5	5%	2W	F
832	1-202-597-00	COMPOSITION	10K	5%	1/2W	
833	1-202-615-00	COMPOSITION	56K	5%	1/2W	
834	1-246-545-00	CARBON	1M	5%	1/4W	
835	1-206-664-00	METAL	1K	5%	2W	F
837	1-212-370-00	METAL	6.8	5%	1W	F
838	1-212-370-00	METAL	6.8	5%	1W	F
		VARIABLE RESISTOR				
V801	1-223-064-00	RES, ADJ, WIREWOUND 150				
		SPARK GAP				
G801	1-519-063-XX	DISCHARGING GAP				
		TRANSFORMER				
801	1-405-760-00	COIL, OSC				
802	⚠.1-439-244-00	TRANSFORMER ASSY, FLYBACK				
803	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE				

Ref.No	Part No	Description				Remark
	♠:1-600-397-11	J BOARD *******				
	1-592-036-11	PC BOARD, H COMBINED				
		CONNECTOR				
A2	♠:1-551-620-00	CONNECTOR ASSY, MINIATURE 4P				
		DIODE				
D451	8-719-922-19	DIODE 1SS119				
		CONNECTOR				
M11	♠:1-551-786-00	CONNECTOR 4P				
		RESISTOR				
R451	1-246-537-00	CARBON	470K	5%	1/4W	
		VARIABLE RESISTOR				
RV451	1-224-554-00	RES, VAR, CARBON 20K				
RV452	1-226-102-00	RES, VAR 5K				
RV453	1-224-554-00	RES, VAR, CARBON 20K				
		SWITCH				
S451	1-516-473-XX	AFT SWITCH				

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	♠:1-600-396-00	H BOARD *******				
	♠:1-526-634-00	SOCKET, IC (8P)				
	1-592-036-11	PC BOARD, H COMBINED				
	♠:4-336-410-00	HOLDER, LED				
	4-336-411-00	COVER, LED				
		CAPACITOR				
C401	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C402	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C403	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C404	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C405	1-161-051-00	CERAMIC	0.01MF	30%	25V	
		DIODE				
D401	8-719-815-55	DIODE 1S1555				
		IC				
IC401	8-759-997-64	IC SN29764N				
IC402	8-759-619-03	IC M51903L				
		DIODE				
LED401	=>8-719-803-20	DIODE TLR320				
LED402	8-719-812-41	DIODE TLR124				
LED403	8-719-812-42	DIODE TLY124				

Ref.No	Part No	Description				Remark
LED404	8-719-812-43	DIODE TLG124				
LED405	8-719-812-41	DIODE TLR124				
LED406	8-719-812-41	DIODE TLR124				
LED407	8-719-812-41	DIODE TLR124				
LED408	8-719-812-41	DIODE TLR124				
LED409	8-719-812-41	DIODE TLR124				
		CONNECTOR				
M9	♠:1-551-815-00	CONNECTOR ASSY 5P				
M10	♠:1-551-786-00	CONNECTOR 4P				
M12	♠:1-551-797-00	CONNECTOR 7P				
M13	♠:1-551-660-00	CONNECTOR ASSY 9P				
		RESISTOR				
R401	1-246-481-00	CARBON	2.2K	5%	1/4W	
R402	1-246-481-00	CARBON	2.2K	5%	1/4W	
R403	1-246-461-00	CARBON	330	5%	1/4W	
R404	1-246-449-00	CARBON	100	5%	1/4W	
R405	1-246-481-00	CARBON	2.2K	5%	1/4W	
R406	1-246-481-00	CARBON	2.2K	5%	1/4W	
		SWITCH				
S401	1-552-174-00	SWITCH, PUSH				
S402	1-552-174-00	SWITCH, PUSH				
S403	1-552-174-00	SWITCH, PUSH				
S404	1-552-174-00	SWITCH, PUSH				
S405	1-552-174-00	SWITCH, PUSH				
S406	1-552-174-00	SWITCH, PUSH				
S407	1-552-174-00	SWITCH, PUSH				
S408	1-552-174-00	SWITCH, PUSH				
S409	1-552-174-00	SWITCH, PUSH				
S410	1-552-174-00	SWITCH, PUSH				
S411	1-552-174-00	SWITCH, PUSH				
S412	1-552-174-00	SWITCH, PUSH				
S413	1-552-174-00	SWITCH, PUSH				

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	1-600-399-11	X BOARD *******				
	1-592-036-11	PC BOARD, H COMBINED				
	♠:4-330-112-00	CAP, SHIELD				
		CAPACITOR				
C151	1-123-356-00	ELECT	10MF	20%	16V	
C152	1-161-269-00	CERAMIC	68PF	5%	50V	
C153	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C154	1-108-377-00	MYLAR	0.01MF	10%	100V	
C155	1-123-356-00	ELECT	10MF	20%	16V	
C156	1-123-356-00	ELECT	10MF	20%	16V	
C157	1-123-380-00	ELECT	1MF	20%	50V	
C159	1-161-269-00	CERAMIC	68PF	5%	50V	

Ref.No	Part No	Description				Remark
		DIODE				
D151	8-719-110-32	DIODE PH302B				
		COIL				
L151	1-409-315-00	COIL				
		CONNECTOR				
M2	♠:1-551-832-00	CONNECTOR ASSY 3P				
		TRANSISTOR				
Q151	=>8-769-200-30	TRANSISTOR 2SK107-3				
Q152	=>8-729-178-54	TRANSISTOR 2SC2785				
Q153	=>8-729-117-54	TRANSISTOR 2SA1175				
Q154	=>8-729-178-54	TRANSISTOR 2SC2785				
		RESISTOR				
R151	1-246-497-00	CARBON	10K	5%	1/4W	
R152	1-246-533-00	CARBON	330K	5%	1/4W	
R153	1-246-473-00	CARBON	1K	5%	1/4W	
R154	1-246-537-00	CARBON	470K	5%	1/4W	
R155	1-246-489-00	CARBON	4.7K	5%	1/4W	
R156	1-246-489-00	CARBON	4.7K	5%	1/4W	
R157	1-246-537-00	CARBON	470K	5%	1/4W	
R158	1-246-489-00	CARBON	4.7K	5%	1/4W	
R159	1-246-537-00	CARBON	470K	5%	1/4W	
R160	1-246-501-00	CARBON	15K	5%	1/4W	

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		MISCELLANEOUS				
	⚠.1-226-271-00	RES ASSY, HIGH-VOLTAGE				
	1-452-032-00	MAGNET, DISC				
	⚠.1-452-099-00	CRT NECK ASSY				
	1-452-133-00	MAGNET				
	1-452-185-21	COIL ASSY, ETC				
	1-508-966-82	CONNECTOR ASSY (3P)				
	♠:1-509-778-00	CONNECTOR ASSY, 5P				
	♠:1-509-779-00	6P CONNECTOR ASSY				
	♠:1-509-779-00	6P CONNECTOR ASSY				
	♠:1-509-780-82	CONNECTOR ASSY, 6P				
	⚠.1-536-683-11	ANTENNA TERMINAL				
	♠:1-509-812-00	CONNECTOR ASSY, 6P				
	♠:1-535-283-11	TERMINAL, EARTH				
	⚠.1-536-683-11	CONNECTOR, COAXIAL ANTENNA				
	⚠.1-551-270-11	CORD, POWER				
	⚠.1-551-427-11	CORD, POWER, EULO PLUG				
	♠:1-551-489-00	CABLE, WITH PIN				
	♠:1-551-611-00	CONNECTOR ASSY, MINI (2P)				
	♠:1-551-670-00	CONNECTOR ASSY, MINIATURE 1P				
	♠:1-551-683-00	CONNECTOR ASSY, MINIATURE 3P				
	♠:1-551-686-00	CONNECTOR ASSY 5P				
	♠:1-551-832-00	CONNECTOR ASSY 3P				
	♠:1-551-956-00	CONNECTOR ASSY, MINIATURE 3P				

Ref.No	Part No	Description	Remark	Part No	Description	Remark
	♠:1-555-348-00	CONNECTOR, MINIATURE 1P				
	♠:1-561-023-00	CONNECTOR ASSY 6P				
	1-800-070-XX	THERMISTOR 5K				
C901	1-130-334-00	CAP, MEDIUM-VOLT FILM 1000P 2KV				
C902	1-108-377-00	CAP, MYLAR 0.01MF 100V				
C903	1-121-257-00	CAP, ELECT 4.7MF 16V				
J901A	1-507-539-11	JACK, JM35A				
J901B	1-507-539-11	JACK, JM35A				
L901△.	1-426-034-00	COIL, DEGAUSS				
L902△.	1-426-034-00	COIL, DEGAUSS				
L904△.	1-451-175-21	DEFLECTION YOKE (SY-88Y)				
L907	1-407-780-00	COIL, SPOOK CHOKE 3.3UH				
Q901	8-729-372-51	TRANSISTOR 2SD725				
Q902	8-726-420-00	THYRISTOR SG264A				
R901	1-202-549-00	RES, SOLID 100 1/2W				
R904	1-207-457-00	RES, WIRE .33				
R904	1-207-462-00	RES, WIRE .82				
R904	1-207-465-00	RES, WIRE 1.50				
R904	1-207-469-00	RES, WIRE 3.30				
R906	1-246-513-00	RES, CARBON 47K 1/3W				
S901△.	1-552-116-00	SWITCH, PUSH				
SP901	1-502-666-00	SPEAKER				
T901△.	1-427-402-00	TRANSFOORMER, SOUND OUTPUT				
V901△.	8-737-606-05	PICTURE TUB				

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ACCESSORIIES AND PACKING MATERIALS

Part No	Description	Remark
1-504-034-72	MAGNETIC EARPHONE ME-20	
3-701-627-00	BAG, POLYETHYLENE	
4-495-824-11	MANUAL, INSTRUCTION	
4-323-939-00	SPACER	
4-323-940-00	SHEET, PROTECTION	
4-337-109-00	CUSHION (UPPER) (ASSY)	
4-323-926-00	CUSHION (UPPER RIGHT)	
4-323-927-00	CUSHION (UPPER LEFT)	
4-337-110-00	CUSHION (LOWER) (ASSY)	
4-323-928-00	CUSHION (LOWER RIGHT)	
4-323-929-00	CUSHION (LOWER LEFT)	
4-352-411-00	INDIVIDUAL CARTON	
6-047-001-10	HANDLE	

STANDARD PARTS LIST

ELECTROLYTIC CAPACITORS

RATING → : Use the high voltage rated one.

CAP. (μF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						→	→
1.0						→	→
2.2						→	→
3.3						→	→
4.7				→	→	→	1-123-369-00
10			→	→	→	1-123-356-00	1-123-370-00
22			→	1-123-330-00	→	1-123-357-00	1-123-371-00
33	→	→	1-123-318-00	→	1-123-343-00	→	1-123-372-00
47	→	1-123-306-00	→	1-123-332-00	→	1-123-359-00	1-123-373-00
100	→	1-123-307-00	→	1-123-333-00	1-123-345-00	1-123-360-00	1-123-374-00
220	→	1-123-308-00	1-123-321-00	1-123-334-00	1-123-346-00	1-123-361-00	1-123-375-00
330	→	1-123-309-00	1-123-322-00	1-123-335-00	1-123-347-00	1-123-362-00	1-123-376-00
470	1-123-298-00	1-123-310-00	1-123-323-00	1-123-336-00	1-123-348-00	1-123-363-00	1-123-377-00
1000	1-123-299-00	1-123-311-00	1-123-324-00	1-123-337-00	1-123-349-00	1-123-364-00	1-123-378-00
2200	1-123-300-00	→	1-123-325-00	1-123-338-00	1-123-350-00		
3300	1-123-301-00	1-123-313-00	1-123-326-00	1-123-339-00			
4700	1-123-302-00	1-123-314-00	1-123-327-00				
6800	1-123-303-00	1-123-315-00					
10000	1-123-304-00						

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

RATING

CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

MYLAR CAPACITORS

RATING

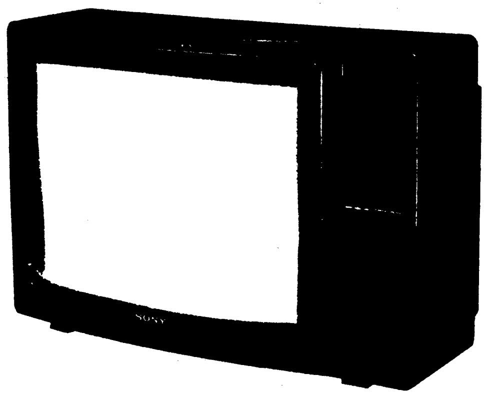
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

KV-2204EC

This circuit and mechanical structure of models KV-2204E and KV-2204EC are almost identical. Refer to the service manual of KV-2204E (Part No. 9-962-511-01) for operation and service procedure not contained in this manual.

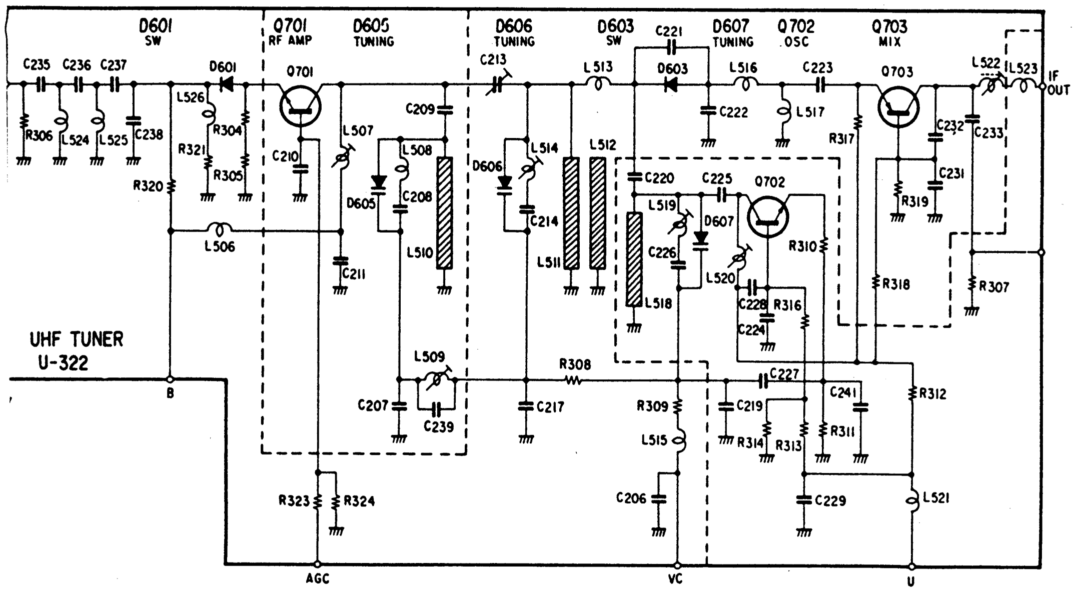
Belgium Model

Chassis No. SCC-216C-A

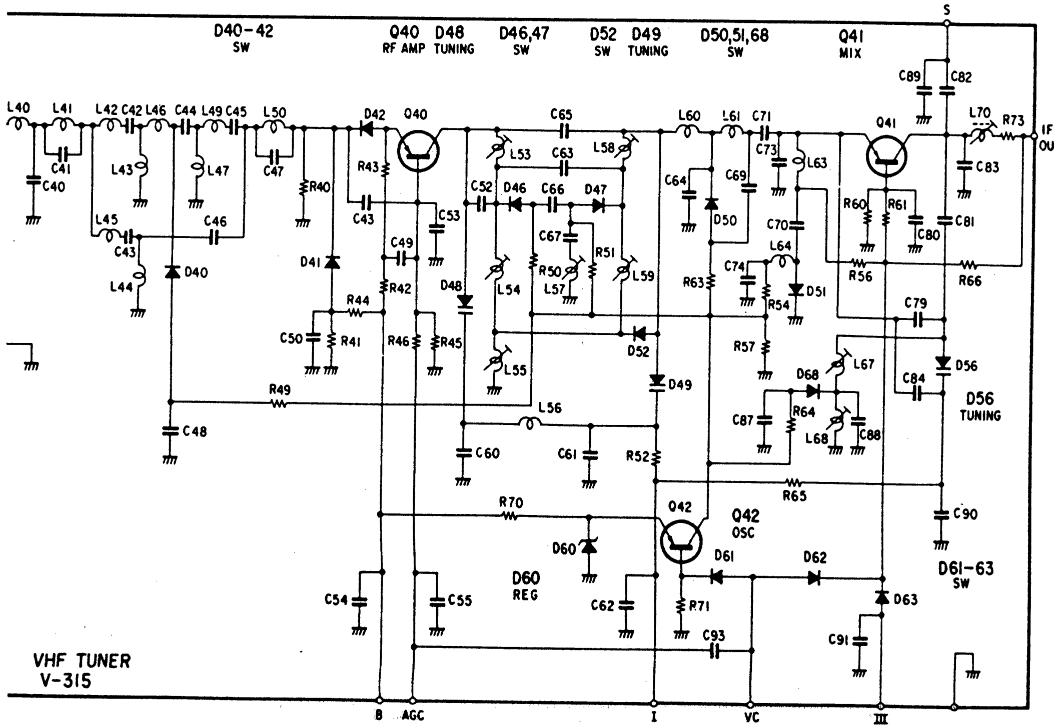


TRINITRON® COLOR TV

HF TUNER
U322 –


D601 SW
Q701 RF AMP
D605 TUNING
D606 TUNING
D603 SW
C221
D607 TUNING
Q702 OSC
Q703 MIX
C235 C236 C237
D601
C213
L513
D603
L516
C223
Q703
L522
L523
IF OUT
Q701
L526
R304
C209
R306 L524 L525 C238
R321
R305
C210
L507
L508
D605
C208
D606
L514
L512
C222
L517
R317
C232 C233
R320
C220 C225 Q702
C231
L519 D607
R319
C214
L506
C211
L510
L511
C226
L520
R310
R318
R307
C228 R316
C224
L518
UHF TUNER U-322
L509
R308
C227
B
C207
C239
C217
R309
C219
C241
R312
L515
R314 R313 R311
R323 R324
C206
C229
L521
AGC
VC
U

VHF TUNER
– V315 –

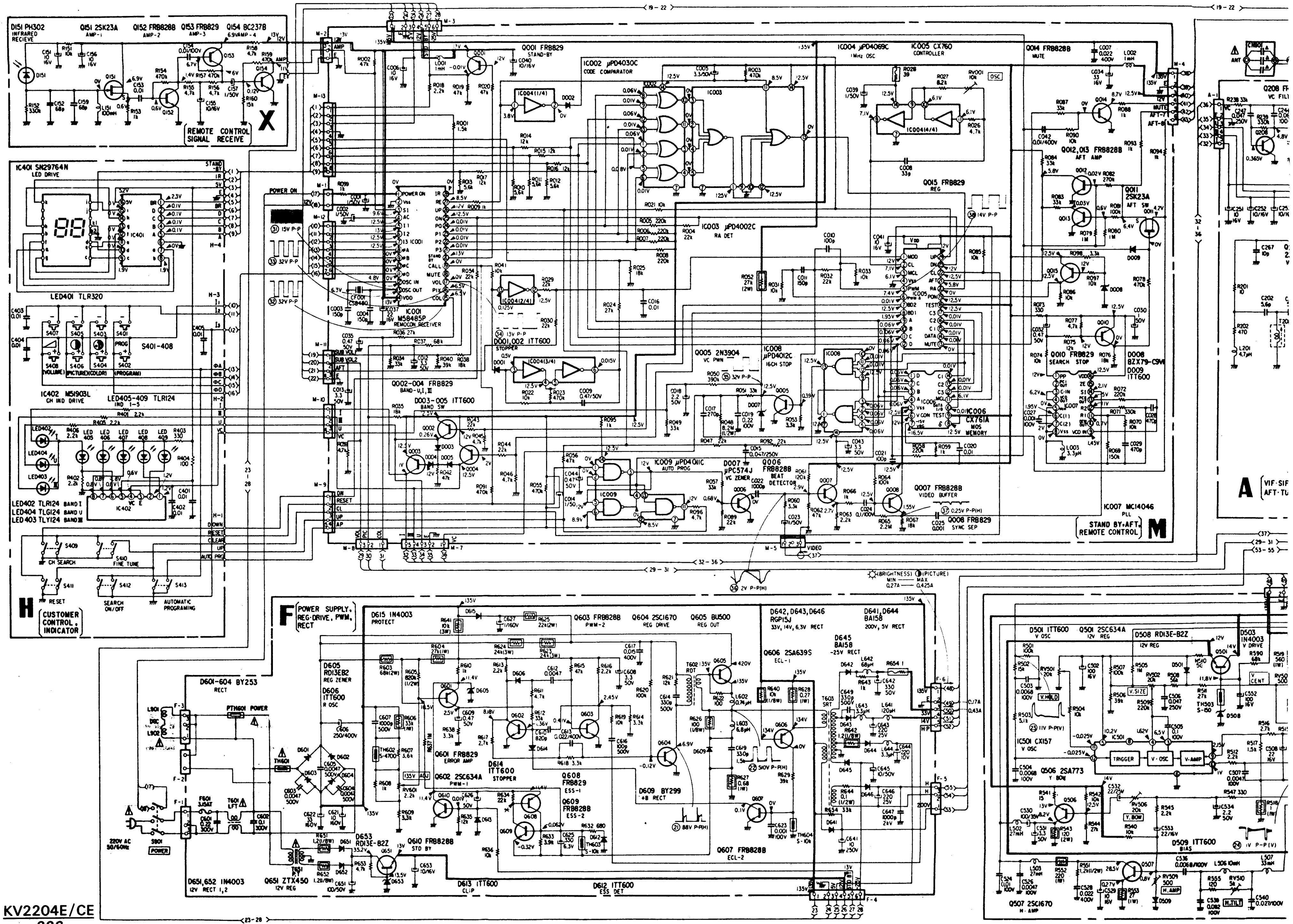

D40-42 SW
Q40 RF AMP
D48 TUNING
D46,47 SW
D52 SW
D49 TUNING
D50,51,68 SW
Q41 MIX
S
C89 C82
L40 L41 L42 C42 L46 C44 L49 C45 L50
D42 Q40
C65
L60 L61 C71
Q41
L70 R73
IF OUT
C41
C40
L43
L47
C47
R43
L53
C63
L58
C73
L63
C83
R40
C52 D46 C66 D47
C64
C69
R60 R61
C53
C43
D50
C70
C80 C81
L45 C43 C46
C67
C74
L64
R56
R66
L44
D40
D41
C49
R42
D48
L54
R50 L57 R51
L59
R63
R54 D51
C79
R44
C50 R41
R46 R45
D52
L55
R57
D68
L67
C84
D56
D56 TUNING
D49
C87 R64
L68 C88
R49
L56
C48
C60
C61
R52
R65
R70
Q42
Q42 OSC
C90
D60
D61 D62
D60 REG
D61-63 SW
C54
C55
C62
R71
D63
C93
C91
VHF TUNER V-315
B AGC
I
VC
III

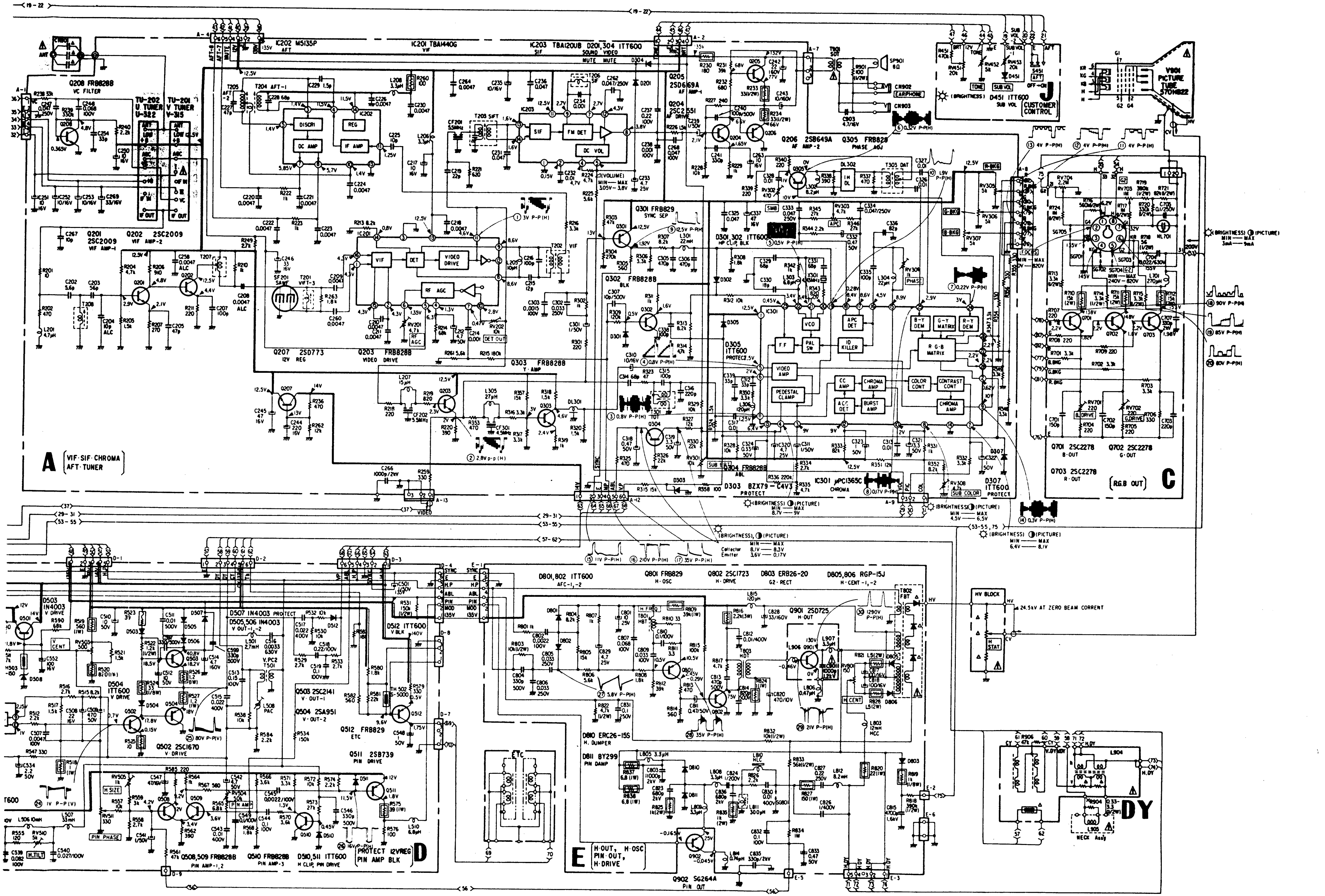
SPECIFICATIONS

Television System:	CCIR system B, G and H
Color System:	PAL
Picture Tube:	56 cm, 22" (53.8 cm screen measured diagonally), 114° deflection TRINITRON system
Semiconductors:	63 transistors, 2 FETs, 16 ICs, 85 diodes and 1 GCS (Gate Controled Switch)
Antennas:	75 Ω standard antenna socket
Channel Coverage:	VHF channels: LOW (45 – 110 MHz) HIGH (110 – 280 MHz) UHF channels: E21 – 68
Intermediate Frequencies:	Picture i-f carrier: 38.9 MHz Color subcarrier: 34.47 MHz Sound i-f carrier: 33.4 MHz
Sound System:	5.5 MHz intercarrier Output power: 2 W (at 10 % harmonic distortion) Speaker: 12 cm (4¾ inches) dia., 8 Ω
Video System:	R, G, B cathode drive
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) ADG (automatic degaussing) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller) APC (automatic phase control) AVR (automatic voltage regulator)

Anode Voltage:	24.5 kV at zero beam current
Power Requirement:	220 – 240 V ac, 50 Hz
Power Consumption:	98 W ac 7 W ac (in stand-by condition)
Dimensions:	Approx. 669 (w) x 459 (h) x 413 (d) mm 26 ⅜ (w) x 18 ⅛ (h) x 16 ⅜ (d) inches
Net Weight:	Approx. 32 kg (70 lb 9 oz)
Accessories Supplied:	Remote commander RM-605 Earphone (ME-20B) Instruction manual

Note: KV-2204EC is much the same to KV-2204E, so this service manual has only different portions.
Refer to the KV-2204E Service Manual for related information (block diagram, disassembly, setup and circuit adjustments, mounting diagrams, exploded views, electrical parts list).


D151 PH302 INFRARED RECIEVE
Q151 2SK23A AMP-1
Q152 FR8828B AMP-2
Q153 FR8829 AMP-3
Q154 BC237B 6.9VAMP-4
REMOTE CONTROL SIGNAL RECEIVE
X
IC401 SN29764N LED DRIVE
LED401 TLR320
S401-408
(VOLUME) (PICTURE)(COLOR) (PROGRAM)
IC402 M51903L CH IND DRIVE
LED405-409 TLR124 IND 1-5
LED402 TLR124 BAND I
LED404 TLG124 BAND U
LED403 TLY124 BAND III
CH SEARCH
FINE TUNE
RESET
SEARCH ON/OFF
AUTOMATIC PROGRAMING
H
CUSTOMER CONTROL, INDICATOR
POWER ON
IC001 M58485P REMOCON RECEIVER
Q001 FR8829 STAND-BY
IC002 µPD4030C CODE COMPARATOR
IC003 µPD4002C RA DET
IC004 µPD4069C 1MHz OSC
IC005 CX760 CONTROLLER
Q014 FR8828B MUTE
Q012,013 FR8828B AFT AMP
Q011 2SK23A AFT SW
Q015 FR8829 REG
Q002-004 FR8829 BAND-U,I,III
D003-005 1TT600 BAND SW
D001,002 1TT600 STOPPER
Q005 2N3904 VC PWM
IC008 µPD4012C 16CH STOP
IC006 CX761A MOS MEMORY
IC009 µPD4011C AUTO PROG
D007 µPC574J VC ZENER
Q006 FR8828B BEAT DETECTOR
Q007 FR8828B VIDEO BUFFER
Q008 FR8829 SYNC SEP
Q010 FR8829 SEARCH STOP
D008 BZX79-C9V1
D009 1TT600
IC007 MC14046 PLL
STAND BY+AFT, REMOTE CONTROL
M
A
VIF·SIF AFT·TU
(BRIGHTNESS) (PICTURE) MIN — MAX 0.27A — 0.425A
F
POWER SUPPLY, REG·DRIVE, PWM, RECT
D601-604 BY253 RECT
PTH601 POWER
220V AC 50/60Hz
S901 POWER
D605 RD13EB2 REG ZENER
D606 1TT600 R OSC
D615 1N4003 PROTECT
Q601 FR8829 ERROR AMP
Q602 2SC634A PWM-1
Q603 FR8828B PWM-2
Q604 2SC1670 REG DRIVE
Q605 BU500 REG OUT
D614 1TT600 STOPPER
Q608 FR8829 ESS-1
Q609 FR8828B ESS-2
D609 BY299 +B RECT
Q607 FR8828B ECL-2
Q606 2SA639S ECL-1
D642,D643,D646 RGP15J 33V, 14V, 6.3V RECT
D641,D644 BA158 200V, 5V RECT
D645 BA158 -25V RECT
D653 RD13E-B2Z
Q610 FR8828B STD BY
Q651 ZTX450 12V REG
D651,652 1N4003 12V RECT 1,2
D613 1TT600 CLIP
D612 1TT600 ESS DET
D501 1TT600 V OSC
Q501 2SC634A 12V REG
D508 RD13E-B2Z 12V REG
D503 1N4003 V DRIVE
IC501 CX157 V OSC
TRIGGER
V-OSC
V-AMP
Q506 2SA773 Y BOW
D509 1TT600 BIAS
Q507 2SC1670 H-AMP
V.HOLD
V.SIZE
V CENT
Y.BOW
H.AMP
H.TILT


19 - 22
IC202 M5135P AFT
IC201 TBA1440G VIF
IC203 TBA120UB SIF
D201,304 ITT600 SOUND VIDEO
MUTE MUTE
Q208 FRB828B VC FILTER
TU-202 U TUNER U-322
TU-201 V TUNER V-315
Q201 2SC2009 VIF AMP-1
Q202 2SC2009 VIF AMP-2
SF201 SAWF
T201 VIFT-3
T202 VIF
T204 AFT-1
T205 SIFT
T206 SIF
Q207 2SD773 12V REG
Q203 FRB828B VIDEO DRIVE
Q303 FRB828B Y-AMP
A
VIF·SIF·CHROMA
AFT·TUNER
Q205 2SD669A AF AMP-1
Q204 2SC2551 AF DRIVE
Q206 2SB649A AF AMP-2
Q305 FRB829 PHASE ADJ
SP901 8Ω
CN902 EARPHONE
Q301 FRB829 SYNC SEP
D301,302 ITT600 HP CLIP, BLK
Q302 FRB828B BLK
D305 ITT600 PROTECT
Q304 FRB828B ABL
D303 BZX79-C4V3 PROTECT
IC301 μPC1365C CHROMA
D307 ITT600 PROTECT
D451 ITT600 SUB VOL
CUSTOMER CONTROL
J
V901 PICTURE TUBE 370HB22
Q701 2SC2278 B-OUT
Q702 2SC2278 G-OUT
Q703 2SC2278 R-OUT
(RGB OUT)
C
(BRIGHTNESS) (PICTURE) MIN — MAX
D503 1N4003 V DRIVE
Q501
D504 ITT600 V DRIVE
Q502 2SC1670 V-DRIVE
D507 1N4003 PROTECT
D505,506 1N4003 V OUT-1,-2
Q503 2SC2141 V-OUT-1
Q504 2SA951 V-OUT-2
D512 ITT600 V BLK
Q512 FRB829 ETC
Q511 2SB739 PIN DRIVE
Q508,509 FRB828B PIN AMP-1,2
Q510 FRB828B PIN AMP-3
D510,511 ITT600 H CLIP, PIN DRIVE
PROTECT 12VREG PIN AMP BLK
D
ETC
D801,802 ITT600 AFC-1,-2
Q801 FRB829 H-OSC
Q802 2SC1723 H-DRIVE
D803 ERB26-20 G2-RECT
D805,806 RGP-15J H-CENT-1,-2
Q901 2SD725 H-OUT
T802 FBT
D810 ERC26-15S H. DUMPER
D811 BY299 PIN DAMP
Q902 SG264A PIN OUT
H-OUT, H-OSC
PIN-OUT,
H-DRIVE
E
HV BLOCK
24.5kV AT ZERO BEAM CURRENT
L904
NECK Assy
DY

A BOARD

Ref. No.	Part No.	Description	Remark
	♠A-1295-356-A	A Board, complete	

CAPACITORS

Ref. No.	Part No.	Description	Remark
C216	1-102-529-00	100p	
C217	1-123-316-00	10 16V elect	
C218	1-161-328-00	0.0047	
C269	1-123-318-00	33 16V elect	
C337	1-123-319-00	47 16V elect	
C338	1-161-271-00	100p	

DIODE

Ref. No.	Part No.	Description	Remark
⇒ D307	8-719-815-55	1S1555	

COILS

Ref. No.	Part No.	Description	Remark
L305	1-407-743-00	27μH	
L306	1-407-753-00	180μH	

C BOARD

RESISTOR

Ref. No.	Part No.	Description	Remark
R719	1-202-635-00	390k ½W	

- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

D BOARD

CAPACITORS

Ref. No.	Part No.	Description	Remark
C513	1-130-243-00	0.15 100V film	
C529	1-131-199-00	10 16V tantalum	
C541	1-123-352-00	1 50V elect	
C542	1-123-355-00	4.7 50V elect	
C545	1-108-618-00	0.0022 100V mylar	
C549	1-130-242-00	0.10 100V film	
C599	1-102-030-00	330p 500V	

RESISTOR

Ref. No.	Part No.	Description	Remark
R523	1-217-394-00	39 ¼W carbon (nonflammable)	

E BOARD

CAPACITOR

Ref. No.	Part No.	Description	Remark
C833	1-123-351-00	0.47 50V elect	

COIL

Ref. No.	Part No.	Description	Remark
L805	1-408-225-00	3.3μH	

RESISTORS

Ref. No.	Part No.	Description	Remark
R821	1-206-443-00	1.5 1W metal oxide (nonflammable)	
R828	1-206-443-00	1.5 1W metal oxide (nonflammable)	
R837	1-212-370-00	6.8 1W metal oxide (nonflammable)	
R838	1-212-370-00	6.8 1W metal oxide (nonflammable)	

F BOARD

RESISTORS

Ref. No.	Part No.	Description	Remark
R644	1-207-451-00	10 ½W wirewound	
R645	1-217-375-00	1 ¼W fusible	

M BOARD

CAPACITOR

Ref. No.	Part No.	Description	Remark
C011	1-161-313-00	150p	

DIODE

Ref. No.	Part No.	Description	Remark
⇒ D009	8-719-815-55	1S1555	

MISCELLANEOUS

Ref. No.	Part No.	Description	Remark
TU201	⚠1-463-244-00	VHF Tuner, V315	
V901	⚠8-737-606-05	Picture Tube, 570HB22	
	1-533-149-00	Holder, fuse	
	♠1-535-283-00	Terminal, ground	
	♠1-535-489-00	Cable with Pin	
	1-535-506-21	Terminal, press	
	⚠1-551-270-00	Cord, power; parallel blade	
	⚠1-551-427-11	Cord, power; eulo plug	

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
3-701-360-00	Label, tack
4-491-416-12	Leaflet, instruction